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**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Science and engineering, total .....	24,023	24,675	25,443	26,205	26,534	27,228	27,240	27,277	25,913	25,979
Engineering, total .....	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,927	5,328	5,330
Aeronautical/astronautical engineering .....	207	234	228	230	252	287	273	243	206	215
Chemical engineering, total .....	691	725	737	725	708	798	767	775	673	726
Chemical .....	621	607	624	630	602	681	662	668	576	620
Petroleum .....	28	54	52	42	48	52	51	48	45	44
Polymer/plastics <sup>1</sup> .....	42	64	61	53	58	65	54	59	52	62
Civil engineering, total .....	575	594	624	684	656	697	656	650	583	558
Civil .....	509	540	563	602	572	599	593	587	505	482
Environmental health .....	66	54	61	82	84	98	63	63	78	76
Electrical engineering, total .....	1,405	1,483	1,543	1,673	1,731	1,740	1,721	1,596	1,477	1,544
Communications .....	21	30	22	33	29	32	33	40	38	42
Computer .....	178	175	167	202	189	208	227	210	205	172
Electrical/electronics .....	1,206	1,278	1,354	1,438	1,513	1,500	1,461	1,346	1,234	1,330
Industrial/manufacturing engineering <sup>2</sup> .....	165	196	236	228	284	258	246	229	212	176
Materials/metallurgical engineering, total .....	489	485	535	539	588	572	581	565	469	451
Ceramic sciences <sup>3</sup> .....	58	42	42	39	39	41	39	24	33	22
Materials science .....	361	365	416	433	476	470	482	482	393	404
Metallurgical .....	70	78	77	67	73	61	60	59	43	25
Mechanical engineering, total .....	875	987	1,030	1,015	1,025	1,052	1,021	1,023	854	864
Mechanical .....	762	855	902	883	917	947	928	937	786	807
Engineering mechanics .....	113	132	128	132	108	105	93	86	68	57
Other engineering, total .....	807	734	765	728	764	901	849	846	854	796
Agricultural .....	83	84	86	89	73	104	79	74	59	60
Bioengineering/biomedical .....	149	147	171	173	189	220	210	207	245	252
Engineering physics .....	23	25	21	17	17	37	24	15	28	26
Engineering science .....	42	51	55	46	56	52	45	50	51	34
Mining/mineral .....	38	26	24	23	19	31	33	21	18	10
Naval architecture/marine <sup>4</sup> .....	5	na								
Nuclear .....	107	120	108	85	105	113	102	96	76	98
Ocean .....	21	21	24	29	21	26	34	29	16	18
Operations research .....	76	56	56	47	48	74	74	62	67	51
Systems .....	48	37	57	51	47	47	49	68	42	34
Engineering, general .....	78	64	47	39	60	60	51	30	39	43
Engineering, other .....	137	103	116	129	129	137	148	194	213	170
Sciences, total .....	18,809	19,237	19,745	20,383	20,526	20,923	21,126	21,350	20,585	20,649
Physical sciences, total .....	3,626	3,781	3,699	3,977	3,841	3,837	3,768	3,823	3,578	3,411
Astronomy, total .....	125	134	145	144	173	192	198	207	159	187
Astronomy .....	50	55	76	66	89	84	71	91	59	80
Astrophysics .....	75	79	69	78	84	108	127	116	100	107
Chemistry, total .....	2,194	2,214	2,137	2,257	2,162	2,148	2,147	2,215	2,132	1,990
Analytical .....	304	304	286	334	317	346	350	383	333	326
Inorganic .....	260	268	237	262	258	249	279	287	279	221
Medicinal/ pharmaceutical <sup>5</sup> .....	83	69	99	102	96	96	105	114	131	107
Nuclear .....	14	7	8	10	5	5	8	6	10	9
Organic .....	538	512	518	544	483	506	566	597	562	524
Physical .....	364	398	336	334	338	300	334	279	310	271
Polymer .....	111	83	107	117	116	121	110	122	96	106
Theoretical .....	45	59	53	52	40	57	48	41	56	52
Chemistry, general .....	400	449	431	447	458	396	261	285	196	264
Chemistry, other .....	75	65	62	55	51	72	86	101	159	110

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Physics, total .....	1,286	1,403	1,399	1,548	1,479	1,484	1,401	1,377	1,270	1,205
Acoustics .....	13	18	27	20	18	19	19	18	16	10
Chemical & atomic/ molecular <sup>6</sup> .....	76	85	95	140	110	129	106	100	99	110
Electron <sup>4</sup> .....	1	na								
Elementary particle .....	182	153	170	176	183	175	170	173	169	147
Fluids .....	14	17	19	12	18	21	24	26	23	10
Nuclear .....	66	86	82	90	91	87	106	92	76	74
Optics .....	85	94	96	104	98	129	123	104	97	117
Plasma & high- temperature <sup>7</sup> .....	58	65	62	79	46	48	39	55	49	38
Polymer .....	17	17	29	29	23	33	19	24	28	21
Solid state & low-temperature <sup>8</sup> .....	372	408	336	388	371	364	328	313	307	279
Physics, general .....	247	297	340	343	355	323	255	191	205	225
Physics, other .....	155	163	143	167	166	156	212	281	201	174
Other physical sciences .....	21	30	18	28	27	13	22	24	17	29
Earth, atmospheric, and ocean sciences, total .....	815	794	771	824	780	794	878	814	805	757
Atmospheric sciences, total .....	108	120	99	129	130	125	149	125	124	143
Atmospheric dynamics .....	21	23	23	27	16	21	25	24	16	17
Atmospheric physics/ chemistry .....	20	36	13	27	27	22	45	38	43	39
Meteorology .....	31	28	34	32	25	35	28	25	22	34
Atmospheric science/ meteorology, general .....	26	27	22	37	44	33	36	22	33	36
Atmospheric science/ meteorology, other .....	10	6	7	6	18	14	15	16	10	17
Geosciences, total .....	560	503	479	509	454	452	489	504	452	385
Applied geology <sup>4</sup> .....	1	na								
Geology .....	192	166	197	194	186	162	165	171	157	124
Geochemistry .....	64	62	50	59	42	49	49	58	55	48
Geomorphology/glacial geology .....	18	12	16	13	11	11	26	20	18	14
Geophysics/seismology .....	117	108	101	106	93	101	108	106	100	69
Hydrology/water resources .....	16	29	25	30	24	31	43	35	32	43
Mineralogy/petrology .....	36	29	9	21	19	23	19	14	14	5
Paleontology .....	24	25	21	17	20	14	23	23	15	31
Stratigraphy/ sedimentation .....	29	23	28	27	16	12	23	24	17	13
Geological & related sciences, general .....	30	18	15	18	21	27	16	13	9	20
Geological & related sciences, other .....	33	31	17	24	22	22	17	40	35	18
Oceanography, total .....	112	114	125	125	115	134	144	112	130	135
Marine sciences .....	27	32	27	34	32	27	30	18	30	35
Oceanography .....	85	82	98	91	83	107	114	94	100	100
Other environmental sciences .....	35	57	68	61	81	83	96	73	99	94

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Mathematical/computer sciences, total .....	1,839	1,927	2,026	2,021	2,187	2,043	2,033	2,102	1,936	1,909
Mathematics, total .....	1,039	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,048
Algebra .....	72	69	84	78	82	78	78	75	84	82
Analysis/functional analysis .....	132	105	105	107	99	100	103	130	86	81
Applied mathematics .....	193	213	188	206	211	230	242	265	252	238
Computing theory .....	19	12	18	16	14	18	14	18	14	17
Geometry .....	66	45	44	35	45	72	70	54	65	59
Logic .....	23	28	19	29	35	16	23	16	23	19
Mathematical statistics <sup>9</sup> .....	206	217	228	205	205	178	181	204	174	194
Number theory .....	30	25	42	37	35	42	46	46	50	40
Operations research .....	16	22	37	26	36	21	20	17	21	19
Topology .....	57	58	54	38	51	55	62	65	65	50
Mathematics, general .....	180	209	276	269	305	233	153	163	116	150
Mathematics, other .....	45	55	51	72	72	79	131	124	133	99
Computer sciences, total .....	800	869	880	903	997	921	910	925	853	861
Computer science .....	720	791	825	833	913	837	829	819	738	722
Information science/ systems .....	80	78	55	70	84	84	81	106	115	139
Biological/agricultural sciences, total .....	5,723	5,862	6,060	6,281	6,411	6,760	6,768	6,880	6,546	6,798
Biological sciences, total .....	4,650	4,799	5,092	5,203	5,375	5,723	5,786	5,843	5,581	5,855
Bacteriology .....	11	13	14	18	13	16	13	13	13	15
Biochemistry .....	765	715	846	804	824	794	831	798	760	777
Biomedical sciences <sup>10</sup> .....	na	na	na	na	93	140	158	184	176	155
Biophysics .....	100	125	103	123	155	142	147	166	173	164
Biotechnology research <sup>11</sup> .....	na	na	8	14	4	6	11	12	19	14
Plant genetics .....	23	33	41	30	35	41	30	40	31	35
Plant pathology .....	50	32	41	40	32	38	33	18	36	25
Plant physiology .....	65	68	48	70	55	73	47	61	54	39
Botany, other .....	105	107	105	117	102	105	91	113	67	92
Anatomy .....	77	75	76	66	64	47	50	35	33	40
Biometrics/biostatistics .....	59	63	74	72	67	81	84	75	76	92
Cell biology .....	149	188	231	237	236	233	251	299	284	337
Developmental biology/ embryology <sup>12</sup> .....	37	48	57	62	64	96	115	127	108	111
Ecology .....	189	180	177	201	203	245	255	293	272	297
Endocrinology .....	33	27	16	26	20	24	17	30	19	20
Entomology .....	138	139	114	123	121	136	124	138	114	137
Biological immunology <sup>13</sup> .....	177	181	169	161	190	238	214	245	223	238
Microbiology .....	372	377	433	423	426	444	410	383	382	383
Molecular biology .....	481	527	582	598	617	651	772	736	715	705
Neuroscience .....	238	238	276	284	308	404	437	413	431	495
Nutritional sciences .....	106	132	134	147	136	142	124	139	102	150
Parasitology .....	20	17	17	22	14	22	17	15	13	19
Toxicology .....	86	105	100	120	126	138	180	155	114	123
Human/animal genetics .....	160	142	172	203	202	212	217	197	216	225
Human/animal pathology .....	122	114	130	128	109	135	106	90	120	105
Human/animal pharmacology .....	266	279	274	259	278	316	300	255	254	267
Human/animal physiology .....	272	266	271	289	262	275	227	258	243	244
Zoology, other .....	125	134	114	117	145	100	97	111	126	133
Biological sciences, general .....	278	315	305	288	348	291	209	216	182	200
Biological sciences, other .....	146	159	164	161	126	138	219	228	225	218

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Agricultural sciences, total .....	1,073	1,063	968	1,078	1,036	1,037	982	1,037	965	943
Agronomy & crop science <sup>14</sup> .....	117	123	104	143	114	110	77	97	106	70
Animal breeding/genetics .....	18	23	18	17	19	12	24	18	21	22
Animal nutrition .....	57	41	52	58	50	54	55	45	46	46
Dairy science .....	19	14	11	11	14	9	14	10	12	9
Poultry science .....	13	22	16	21	11	12	9	11	8	9
Animal sciences, other .....	92	97	74	86	85	90	62	60	71	73
Fisheries science & management <sup>15</sup> .....	39	26	38	48	49	46	45	30	38	43
Wildlife/range management <sup>16</sup> .....	59	55	54	52	50	64	50	56	44	56
Food engineering <sup>17</sup> .....	12	14	9	16	7	7	11	13	7	10
Food sciences, other <sup>17</sup> .....	137	151	141	153	135	142	175	153	137	142
Forest biology <sup>18</sup> .....	17	29	18	20	24	19	22	20	14	22
Forest engineering <sup>18</sup> .....	2	2	3	na	4	0	13	2	1	3
Forest management <sup>18</sup> .....	22	16	17	17	20	22	21	27	17	13
Wood science & pulp/paper technology <sup>18</sup> .....	16	21	20	26	26	18	25	25	21	11
Conservation/renewable natural resources <sup>18</sup> .....	19	9	13	21	24	13	17	25	25	19
Forestry & related sciences, other <sup>18</sup> .....	45	62	55	59	71	56	50	69	49	54
Horticulture science .....	78	65	62	65	67	73	44	60	66	55
Plant breeding/genetics .....	69	82	68	81	72	63	67	69	44	68
Plant pathology .....	90	63	58	55	52	90	65	66	66	63
Plant protection/pest management <sup>19</sup> .....	2	na	na	na	na	na	na	na	na	na
Plant sciences, other .....	17	29	28	24	30	21	20	37	38	29
Soil chemistry/ microbiology <sup>20</sup> .....	24	24	26	21	27	29	32	27	29	26
Soil sciences, other <sup>20</sup> .....	78	63	59	69	72	78	56	74	67	64
Agricultural sciences, general .....	3	9	10	4	6	5	10	8	8	10
Agricultural sciences, other .....	28	23	14	11	7	4	18	35	30	26

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Psychology, total .....	3,250	3,263	3,420	3,379	3,429	3,491	3,568	3,676	3,659	3,623
Clinical .....	1,305	1,309	1,373	1,285	1,291	1,325	1,267	1,344	1,442	1,357
Cognitive psychology & psycholinguistics <sup>21</sup> .....	94	101	104	129	104	128	166	113	143	141
Comparative .....	7	2	5	8	4	3	6	6	11	7
Counseling .....	497	507	488	497	470	464	487	448	460	475
Developmental & child <sup>22</sup> .....	155	170	202	179	152	188	215	267	193	203
Educational .....	110	91	91	69	74	92	61	61	66	97
Experimental .....	142	154	143	139	151	128	145	149	137	133
Family & marriage counseling <sup>10</sup> .....	na	na	na	na	57	52	64	51	55	54
Human/individual & family development <sup>23</sup> .....	na	na	na	129	150	151	126	118	133	148
Industrial/organizational .....	142	138	159	137	155	162	187	189	158	188
Physiological/psychobiology <sup>24</sup> .....	45	55	85	93	92	80	77	92	86	89
Quantitative .....	7	10	16	17	13	19	17	15	14	8
Personality .....	13	17	22	19	16	24	26	25	16	23
Psychometrics .....	9	5	9	5	10	11	11	9	15	13
School .....	82	88	95	84	91	82	84	106	121	98
Social .....	147	139	125	153	155	170	181	186	176	209
Psychology, general .....	324	295	306	280	306	279	319	301	229	239
Psychology, other .....	171	182	197	156	138	133	129	196	204	141
Social sciences, total .....	3,556	3,610	3,769	3,901	3,878	3,998	4,111	4,055	4,061	4,151
Economics, total .....	1,053	1,051	1,067	1,101	1,152	1,177	1,163	1,155	1,075	1,085
Agricultural economics .....	168	141	137	162	173	169	133	155	149	137
Econometrics .....	24	25	24	26	27	29	31	25	15	15
Economics .....	861	885	906	913	952	979	999	975	911	933
Political science, total .....	740	804	824	930	894	927	974	961	1,017	986
International relations & affairs <sup>25</sup> .....	88	76	102	112	73	99	88	97	119	77
Political science/government .....	434	513	507	589	600	621	665	663	655	670
Public administration .....	107	108	117	135	128	103	95	104	119	102
Public policy analysis <sup>26</sup> .....	111	107	98	94	93	104	126	97	124	137
Sociology, total .....	493	512	535	548	555	527	601	579	571	634
Demography/population studies <sup>27</sup> .....	28	17	22	23	15	11	24	30	28	19
Sociology .....	465	495	513	525	540	516	577	549	543	615
Other social sciences, total .....	1,270	1,243	1,343	1,322	1,277	1,367	1,373	1,360	1,398	1,446
American studies .....	92	81	101	88	94	115	84	100	98	113
Anthropology .....	341	320	342	384	375	396	434	425	462	446
Archaeology .....	33	33	38	34	35	21	35	34	26	36
Area studies .....	24	33	36	34	27	28	10	14	11	14
Criminology .....	35	37	39	41	44	60	49	55	51	66
Geography .....	108	111	137	146	150	165	149	154	144	197
History/philosophy of science & technology <sup>28</sup> .....	27	28	37	27	41	37	36	43	49	42
Linguistics .....	227	266	214	221	201	230	244	220	250	229
Statistics .....	31	29	48	46	48	48	56	61	72	60
Urban affairs & studies <sup>29</sup> .....	90	86	123	132	103	106	93	77	57	78
Social sciences, general .....	36	33	32	21	35	26	26	30	25	39
Social sciences, other .....	226	186	196	148	124	135	157	147	153	126

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-S&E, total <sup>30</sup>	13,511	14,215	14,357	14,829	15,208	15,185	15,305	15,357	15,147	15,389
Health	1,041	1,112	1,197	1,296	1,330	1,324	1,422	1,501	1,404	1,589
Humanities <sup>31</sup>	3,720	4,036	4,091	4,374	4,690	4,713	5,035	5,112	5,028	5,214
Education	6,454	6,677	6,689	6,708	6,649	6,772	6,572	6,568	6,545	6,420
Professional/other	2,296	2,390	2,380	2,451	2,539	2,376	2,276	2,176	2,170	2,166
Grand total, all fields	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368

- 1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."
- 2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."
- 3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."
- 4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."
- 5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."
- 6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."
- 7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."
- 8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."
- 9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."
- 10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."
- 11 "Biotechnology research" was introduced in 1993.
- 12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."
- 13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."
- 14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."
- 15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."
- 16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."
- 17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."
- 18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.
- 19 "Plant protection/pest management" was deleted in 1991.
- 20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."
- 21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."
- 22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."
- 23 "Human/individual & family development" was introduced in 1994.
- 24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."
- 25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."
- 26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."
- 27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."
- 28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."
- 29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."
- 30 Non-S&E doctorates include those whose field of specialization is unknown.
- 31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Science and engineering, total .....	6,932	7,080	7,652	7,921	8,286	8,646	8,941	9,342	9,071	9,396	28.9	36.2
Engineering, total .....	467	506	522	635	696	776	751	773	791	839	9.0	15.7
Aeronautical/astronautical engineering .....	7	8	8	11	14	24	16	15	17	21	3.4	9.8
Chemical engineering, total .....	83	113	94	113	109	143	122	140	123	152	12.0	20.9
Chemical .....	75	101	83	101	96	126	106	119	101	131	12.1	21.1
Petroleum .....	1	3	5	3	1	3	3	6	5	6	3.6	13.6
Polymer/plastics <sup>1</sup> .....	7	9	6	9	12	14	13	15	17	15	16.7	24.2
Civil engineering, total .....	41	50	54	80	76	79	80	100	89	88	7.1	15.8
Civil .....	31	36	45	56	55	64	70	83	76	78	6.1	16.2
Environmental health .....	10	14	9	24	21	15	10	17	13	10	15.2	13.2
Electrical engineering, total .....	79	115	125	147	173	169	150	156	156	196	5.6	12.7
Communications .....	2	1	2	5	5	2	3	6	6	7	9.5	16.7
Computer .....	9	13	15	25	18	23	21	22	33	32	5.1	18.6
Electrical/electronics .....	68	101	108	117	150	144	126	128	117	157	5.6	11.8
Industrial/manufacturing engineering <sup>2</sup> .....	17	25	27	33	50	51	40	40	43	35	10.3	19.9
Materials/metallurgical engineering, total .....	77	61	78	83	95	83	106	84	88	83	15.7	18.4
Ceramic sciences <sup>3</sup> .....	10	9	6	9	5	3	8	2	9	8	17.2	36.4
Materials science .....	59	50	67	69	84	71	96	75	75	73	16.3	18.1
Metallurgical .....	8	2	5	5	6	9	2	7	4	2	11.4	8.0
Mechanical engineering, total .....	57	45	57	69	64	78	88	93	96	96	6.5	11.1
Mechanical .....	50	33	46	60	56	68	82	80	85	89	6.6	11.0
Engineering mechanics .....	7	12	11	9	8	10	6	13	11	7	6.2	12.3
Other engineering, total .....	106	89	79	99	115	149	149	145	179	168	13.1	21.1
Agricultural .....	8	6	6	10	7	17	12	5	12	7	9.6	11.7
Bioengineering/biomedical .....	27	33	31	45	48	49	54	50	63	71	18.1	28.2
Engineering physics .....	2	2	3	3	1	3	4	3	4	1	8.7	3.8
Engineering science .....	3	6	3	3	6	4	7	8	4	6	7.1	17.6
Mining/mineral .....	6	3	1	3	0	3	3	4	2	0	15.8	.0
Naval architecture/marine <sup>4</sup> .....	0	na	.0	-								
Nuclear .....	6	9	5	8	9	9	8	10	9	9	5.6	9.2
Ocean .....	1	0	1	2	3	3	5	0	1	3	4.8	16.7
Operations research .....	22	11	10	7	8	16	15	15	16	11	28.9	21.6
Systems .....	4	3	4	5	5	9	10	9	7	6	8.3	17.6
Engineering, general .....	7	3	3	4	9	11	3	3	4	10	9.0	23.3
Engineering, other .....	20	13	12	9	19	25	28	38	57	44	14.6	25.9
Sciences, total .....	6,465	6,574	7,130	7,286	7,590	7,870	8,190	8,569	8,280	8,557	34.4	41.4
Physical sciences, total .....	679	770	780	828	878	842	852	926	830	836	18.7	24.5
Astronomy, total .....	14	19	25	25	30	41	37	45	32	41	11.2	21.9
Astronomy .....	7	11	12	9	18	21	18	22	17	25	14.0	31.3
Astrophysics .....	7	8	13	16	12	20	19	23	15	16	9.3	15.0
Chemistry, total .....	517	579	582	625	661	605	613	695	632	624	23.6	31.4
Analytical .....	83	95	91	102	109	111	106	146	108	121	27.3	37.1
Inorganic .....	73	69	59	87	92	68	81	84	90	64	28.1	29.0
Medicinal/ pharmaceutical .....	27	27	38	26	32	32	43	46	50	51	32.5	47.7
Nuclear .....	4	1	0	0	3	0	0	1	1	3	28.6	33.3
Organic .....	108	119	131	128	134	118	145	160	163	140	20.1	26.7
Physical .....	86	109	88	93	93	85	91	77	75	76	23.6	28.0
Polymer .....	24	12	22	23	28	30	25	40	31	31	21.6	29.2
Theoretical .....	7	16	16	17	10	14	11	10	9	12	15.6	23.1
Chemistry, general .....	76	107	112	126	135	119	76	88	52	81	19.0	30.7
Chemistry, other .....	29	24	25	23	25	28	35	43	53	45	38.7	40.9

See explanatory information, if any, and SOURCE at end of table.

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Physics, total .....	142	167	169	175	182	193	193	177	160	163	11.0	13.5
Acoustics .....	2	0	1	2	3	2	4	6	1	1	15.4	10.0
Chemical & atomic/ molecular <sup>6</sup> .....	4	6	14	17	15	10	11	13	14	21	5.3	19.1
Electron <sup>4</sup> .....	0	na	.0	-								
Elementary particle .....	20	12	18	16	7	19	21	11	17	15	11.0	10.2
Fluids .....	0	1	2	1	0	4	0	0	2	0	.0	.0
Nuclear .....	7	12	8	9	12	9	11	11	9	9	10.6	12.2
Optics .....	13	9	14	14	13	20	16	18	12	16	15.3	13.7
Plasma & high- temperature <sup>7</sup> .....	2	4	4	8	5	2	2	2	2	0	3.4	.0
Polymer .....	3	1	5	4	3	12	7	4	7	6	17.6	28.6
Solid state & low-temperature <sup>8</sup> .....	42	53	42	53	57	54	51	37	42	42	11.3	15.1
Physics, general .....	31	42	46	30	41	39	36	29	23	31	12.6	13.8
Physics, other .....	18	27	15	21	26	22	34	46	31	22	11.6	12.6
Other physical sciences .....	6	5	4	3	5	3	9	9	6	8	28.6	27.6
Earth, atmospheric, and ocean sciences, total .....	179	188	160	183	170	172	210	219	209	230	22.0	30.4
Atmospheric sciences, total .....	16	27	18	26	23	22	25	30	22	33	14.8	23.1
Atmospheric dynamics .....	3	4	5	9	3	4	5	8	4	3	14.3	17.6
Atmospheric physics/ chemistry .....	2	5	2	5	8	7	10	7	11	12	10.0	30.8
Meteorology .....	7	10	3	8	3	2	3	5	1	6	22.6	17.6
Atmospheric science/ meteorology, general .....	3	7	7	4	7	5	5	8	3	7	11.5	19.4
Atmospheric science/ meteorology, other .....	1	1	1	0	2	4	2	2	3	5	10.0	29.4
Geosciences, total .....	124	115	89	95	91	88	119	127	112	109	22.1	28.3
Applied geology <sup>4</sup> .....	0	na	.0	-								
Geology .....	34	35	35	32	38	36	39	40	41	29	17.7	23.4
Geochemistry .....	19	16	13	10	10	10	15	22	21	13	29.7	27.1
Geomorphology/glacial geology .....	2	5	3	2	4	1	4	8	9	4	11.1	28.6
Geophysics/seismology .....	20	23	14	24	19	14	19	21	15	16	17.1	23.2
Hydrology/water resources .....	2	7	9	3	4	5	8	8	5	16	12.5	37.2
Mineralogy/petrology .....	15	6	1	6	4	11	6	5	3	1	41.7	20.0
Paleontology .....	7	2	5	2	3	4	11	7	4	14	29.2	45.2
Stratigraphy/ sedimentation .....	8	10	5	4	1	3	7	4	3	4	27.6	30.8
Geological & related sciences, general .....	9	4	2	1	4	2	4	5	1	5	30.0	25.0
Geological & related sciences, other .....	8	7	2	11	4	2	6	7	10	7	24.2	38.9
Oceanography, total .....	26	29	35	38	28	39	38	32	45	46	23.2	34.1
Marine sciences .....	2	11	8	11	8	5	8	3	9	17	7.4	48.6
Oceanography .....	24	18	27	27	20	34	30	29	36	29	28.2	29.0
Other environmental sciences .....	13	17	18	24	28	23	28	30	30	42	37.1	44.7

See explanatory information, if any, and SOURCE at end of table.

**Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Mathematical/computer sciences, total .....	316	325	402	373	451	370	413	456	433	400	17.2	21.0
Mathematics, total .....	199	205	264	236	265	231	263	297	277	258	19.2	24.6
Algebra .....	16	13	28	24	24	18	20	18	25	21	22.2	25.6
Analysis/functional analysis .....	21	18	23	16	18	15	13	25	19	15	15.9	18.5
Applied mathematics .....	27	44	43	39	47	52	55	61	59	59	14.0	24.8
Computing theory .....	3	0	3	2	2	2	1	3	3	2	15.8	11.8
Geometry .....	5	6	7	4	8	14	13	15	16	8	7.6	13.6
Logic .....	1	2	4	6	7	1	5	5	5	2	4.3	10.5
Mathematical statistics <sup>9</sup> .....	56	46	57	50	54	47	46	62	46	71	27.2	36.6
Number theory .....	8	4	4	5	9	7	11	7	12	5	26.7	12.5
Operations research .....	4	6	9	9	5	4	5	6	9	3	25.0	15.8
Topology .....	18	16	9	11	8	5	14	13	15	10	31.6	20.0
Mathematics, general .....	31	37	56	54	64	45	44	39	22	33	17.2	22.0
Mathematics, other .....	9	13	21	16	19	21	36	43	46	29	20.0	29.3
Computer sciences, total .....	117	120	138	137	186	139	150	159	156	142	14.6	16.5
Computer science .....	96	91	123	118	160	116	132	120	119	104	13.3	14.4
Information science/systems .....	21	29	15	19	26	23	18	39	37	38	26.2	27.3
Biological/agricultural sciences, total .....	1,982	2,064	2,278	2,358	2,445	2,697	2,754	2,832	2,673	2,895	34.6	42.6
Biological sciences, total .....	1,773	1,831	2,050	2,109	2,217	2,415	2,494	2,534	2,393	2,621	38.1	44.8
Bacteriology .....	5	5	6	11	6	8	1	4	6	6	45.5	40.0
Biochemistry .....	289	284	318	320	341	317	364	349	308	325	37.8	41.8
Biomedical sciences <sup>10</sup> .....	na	na	na	na	42	54	63	81	72	68	-	43.9
Biophysics .....	26	33	21	33	46	41	41	47	49	49	26.0	29.9
Biotechnology research <sup>11</sup> .....	na	na	4	2	2	1	3	4	2	6	-	42.9
Plant genetics .....	5	8	12	5	12	16	11	18	9	17	21.7	48.6
Plant pathology .....	13	10	15	11	10	13	8	8	12	8	26.0	32.0
Plant physiology .....	19	16	19	21	21	29	18	28	23	15	29.2	38.5
Botany, other .....	39	45	43	46	34	44	31	55	25	53	37.1	57.6
Anatomy .....	31	31	34	29	25	20	19	8	16	17	40.3	42.5
Biometrics/biostatistics .....	29	24	21	34	23	34	43	39	36	41	49.2	44.6
Cell biology .....	63	80	116	102	117	107	113	154	135	155	42.3	46.0
Developmental biology/embryology <sup>12</sup> .....	20	22	25	32	29	49	61	61	54	60	54.1	54.1
Ecology .....	60	65	67	70	64	84	108	114	121	116	31.7	39.1
Endocrinology .....	16	12	12	8	6	13	9	14	9	8	48.5	40.0
Entomology .....	35	35	28	28	27	36	42	38	37	37	25.4	27.0
Biological immunology <sup>13</sup> .....	76	83	73	74	82	129	93	115	100	115	42.9	48.3
Microbiology .....	150	157	183	177	188	185	185	169	163	190	40.3	49.6
Molecular biology .....	182	194	237	268	265	291	330	322	299	318	37.8	45.1
Neuroscience .....	88	92	110	129	121	165	190	169	181	195	37.0	39.4
Nutritional sciences .....	70	95	99	102	92	98	92	96	68	126	66.0	84.0
Parasitology .....	7	8	7	9	7	12	10	6	6	8	35.0	42.1
Toxicology .....	30	33	43	50	50	60	80	60	53	58	34.9	47.2
Human/animal genetics .....	71	61	76	87	92	101	103	91	105	113	44.4	50.2
Human/animal pathology .....	46	41	45	45	38	52	42	35	54	44	37.7	41.9
Human/animal pharmacology .....	91	92	121	106	129	142	143	120	113	123	34.2	46.1
Human/animal physiology .....	107	82	100	106	103	107	82	100	108	101	39.3	41.4
Zoology, other .....	39	45	32	32	50	31	34	43	47	55	31.2	41.4
Biological sciences, general .....	113	115	113	117	148	120	86	82	75	83	40.6	41.5
Biological sciences, other .....	53	63	70	55	47	56	89	104	107	111	36.3	50.9

See explanatory information, if any, and SOURCE at end of table.

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Agricultural sciences, total .....	209	233	228	249	228	282	260	298	280	274	19.5	29.1
Agronomy & crop science <sup>14</sup> .....	11	23	19	17	13	17	10	18	16	14	9.4	20.0
Animal breeding/genetics .....	2	6	4	3	1	3	4	6	7	4	11.1	18.2
Animal nutrition .....	10	8	7	10	9	11	13	13	12	8	17.5	17.4
Dairy science .....	4	2	2	1	3	2	5	2	5	0	21.1	.0
Poultry science .....	1	6	6	5	0	3	2	3	2	3	7.7	33.3
Animal sciences, other .....	20	21	19	25	19	26	14	16	23	26	21.7	35.6
Fisheries science & management <sup>15</sup> .....	4	1	4	11	9	10	5	8	7	11	10.3	25.6
Wildlife/range management <sup>16</sup> .....	8	7	17	13	8	22	13	15	8	11	13.6	19.6
Food engineering <sup>17</sup> .....	2	2	2	2	0	0	3	3	2	2	16.7	20.0
Food sciences, other <sup>17</sup> .....	46	60	57	69	54	69	79	66	67	66	33.6	46.5
Forest biology <sup>18</sup> .....	3	8	7	6	5	4	1	6	4	8	17.6	36.4
Forest engineering <sup>18</sup> .....	1	0	0	na	0	0	2	0	0	0	50.0	.0
Forest management <sup>18</sup> .....	4	1	0	2	6	2	4	9	3	2	18.2	15.4
Wood science & pulp/paper technology <sup>18</sup> .....	2	2	3	6	6	3	2	4	6	1	12.5	9.1
Conservation/renewable natural resources <sup>18</sup> .....	3	1	4	6	5	3	7	11	9	5	15.8	26.3
Forestry & related sciences, other <sup>18</sup> .....	5	9	9	6	13	18	15	16	16	17	11.1	31.5
Horticulture science .....	19	16	15	14	22	22	16	13	16	16	24.4	29.1
Plant breeding/genetics .....	10	12	14	13	15	13	9	14	13	23	14.5	33.8
Plant pathology .....	26	20	15	20	9	27	26	24	27	12	28.9	19.0
Plant protection/pest management <sup>19</sup> .....	0	na	.0	-								
Plant sciences, other .....	4	6	9	9	3	3	7	14	12	10	23.5	34.5
Soil chemistry/microbiology <sup>20</sup> .....	6	3	5	4	5	9	9	7	8	8	25.0	30.8
Soil sciences, other <sup>20</sup> .....	11	12	4	6	18	14	8	21	11	15	14.1	23.4
Agricultural sciences, general .....	1	2	2	0	3	0	2	1	0	2	33.3	20.0
Agricultural sciences, other .....	6	5	4	1	2	1	4	8	6	10	21.4	38.5

See explanatory information, if any, and SOURCE at end of table.

**Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Psychology, total .....	1,996	1,928	2,088	2,101	2,180	2,328	2,370	2,453	2,441	2,414	61.4	66.6
Clinical .....	848	810	873	842	870	919	901	965	1,034	996	65.0	73.4
Cognitive psychology & psycholinguistics <sup>21</sup> .....	46	47	48	56	52	60	75	50	70	66	48.9	46.8
Comparative .....	5	2	3	7	1	2	3	4	7	2	71.4	28.6
Counseling .....	306	289	284	310	297	303	313	295	295	312	61.6	65.7
Developmental & child <sup>22</sup> .....	119	131	155	132	121	154	170	207	149	163	76.8	80.3
Educational .....	64	69	67	39	53	66	45	39	45	63	58.2	64.9
Experimental .....	64	73	68	71	83	68	70	65	64	59	45.1	44.4
Family & marriage counseling <sup>10</sup> .....	na	na	na	na	37	28	43	28	38	29	-	53.7
Human/individual & family development <sup>23</sup> .....	na	na	na	103	118	121	101	90	110	103	-	69.6
Industrial/organizational .....	76	64	73	69	89	99	103	110	99	112	53.5	59.6
Physiological/psychobiology <sup>24</sup> .....	21	25	50	52	35	41	42	49	49	56	46.7	62.9
Quantitative .....	2	5	11	8	9	7	10	8	7	2	28.6	25.0
Personality .....	4	8	12	12	9	11	13	15	11	14	30.8	60.9
Psychometrics .....	3	2	2	1	4	3	7	5	2	5	33.3	38.5
School .....	57	59	65	53	62	71	66	81	89	77	69.5	78.6
Social .....	86	78	67	100	84	111	116	117	115	135	58.5	64.6
Psychology, general .....	185	168	185	158	185	180	200	201	125	136	57.1	56.9
Psychology, other .....	110	98	125	88	71	84	92	124	132	84	64.3	59.6
Social sciences, total .....	1,313	1,299	1,422	1,443	1,466	1,461	1,591	1,683	1,694	1,782	36.9	42.9
Economics, total .....	217	219	246	249	279	263	266	311	291	293	20.6	27.0
Agricultural economics .....	38	28	31	20	42	37	34	40	39	38	22.6	27.7
Econometrics .....	5	2	7	4	4	8	4	4	5	3	20.8	20.0
Economics .....	174	189	208	225	233	218	228	267	247	252	20.2	27.0
Political science, total .....	211	235	246	282	266	305	297	365	357	365	28.5	37.0
International relations & affairs <sup>25</sup> .....	24	24	28	24	21	32	19	33	38	26	27.3	33.8
Political science/government .....	117	142	129	173	167	186	197	243	216	236	27.0	35.2
Public administration .....	32	30	41	47	43	37	30	48	48	41	29.9	40.2
Public policy analysis <sup>26</sup> .....	38	39	48	38	35	50	51	41	55	62	34.2	45.3
Sociology, total .....	246	250	255	283	294	276	334	317	341	375	49.9	59.1
Demography/population studies <sup>27</sup> .....	16	5	12	12	6	2	16	13	17	9	57.1	47.4
Sociology .....	230	245	243	271	288	274	318	304	324	366	49.5	59.5
Other social sciences, total .....	639	595	675	629	627	617	694	690	705	749	50.3	51.8
American studies .....	56	47	57	48	53	67	47	52	56	63	60.9	55.8
Anthropology .....	210	155	213	208	219	214	241	239	262	252	61.6	56.5
Archaeology .....	20	17	18	17	18	11	20	23	12	24	60.6	66.7
Area studies .....	5	11	11	17	12	9	5	11	3	4	20.8	28.6
Criminology .....	18	15	15	12	23	25	25	22	20	34	51.4	51.5
Geography .....	33	29	40	35	43	45	54	49	49	70	30.6	35.5
History/philosophy of science & technology <sup>28</sup> .....	11	8	16	10	17	10	13	19	18	17	40.7	40.5
Linguistics .....	112	133	118	134	102	113	135	123	147	134	49.3	58.5
Statistics .....	10	11	14	16	11	7	23	21	21	22	32.3	36.7
Urban affairs & studies <sup>29</sup> .....	22	31	44	43	37	38	29	26	17	28	24.4	35.9
Social sciences, general .....	17	20	13	9	23	15	14	17	14	20	47.2	51.3
Social sciences, other .....	125	118	116	80	69	63	88	88	86	81	55.3	64.3

See explanatory information, if any, and SOURCE at end of table.

**Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Non-S&E, total <sup>30</sup> .....	6,941	7,356	7,469	7,899	8,128	8,298	8,305	8,492	8,393	8,725	51.4	56.7
Health .....	668	710	777	843	843	860	936	1,006	897	1,063	64.2	66.9
Humanities <sup>31</sup> .....	1,720	1,858	1,918	2,054	2,256	2,343	2,381	2,466	2,416	2,592	46.2	49.7
Education .....	3,748	3,976	3,921	4,089	4,092	4,179	4,119	4,126	4,195	4,167	58.1	64.9
Professional/other .....	805	812	853	913	937	916	869	894	885	903	35.1	41.7
Grand total, all fields .....	13,873	14,436	15,121	15,820	16,414	16,944	17,246	17,834	17,464	18,121	37.0	43.8

- 1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."
- 2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."
- 3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."
- 4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."
- 5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."
- 6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."
- 7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."
- 8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."
- 9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."
- 10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."
- 11 "Biotechnology research" was introduced in 1993.
- 12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."
- 13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."
- 14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."
- 15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."
- 16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."
- 17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."
- 18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.
- 19 "Plant protection/pest management" was deleted in 1991.
- 20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."
- 21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."
- 22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."
- 23 "Human/individual & family development" was introduced in 1994.
- 24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."
- 25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."
- 26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."
- 27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."
- 28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."
- 29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."
- 30 Non-S&E doctorates include those whose field of specialization is unknown.
- 31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** - = Percent not available as data were not collected that year.  
na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents										
Science and engineering, total .....	15,914	15,942	16,573	18,187	18,996	18,638	18,399	18,245	17,452	17,064
Engineering, total .....	2,474	2,520	2,697	3,053	3,342	3,387	3,329	3,044	2,876	2,556
Chemical .....	399	378	377	380	381	391	409	373	371	380
Civil .....	213	215	227	292	309	305	327	297	311	260
Electrical .....	686	719	795	899	971	928	938	804	764	643
Mechanical .....	359	426	434	538	563	588	537	516	461	395
Other engineering .....	817	782	864	944	1,118	1,175	1,118	1,054	969	878
Sciences, total .....	13,440	13,422	13,876	15,134	15,654	15,251	15,070	15,201	14,576	14,508
Physical sciences, total .....	2,300	2,357	2,330	2,789	2,841	2,569	2,497	2,452	2,271	2,084
Astronomy .....	86	106	111	112	141	149	158	147	117	140
Chemistry .....	1,461	1,441	1,400	1,616	1,624	1,462	1,439	1,465	1,404	1,236
Physics .....	739	790	806	1,044	1,059	948	883	822	738	688
Other physical sciences .....	14	20	13	17	17	10	17	18	12	20
Earth, atmospheric, & ocean sciences .....	618	541	504	613	594	558	607	562	523	509
Mathematics .....	518	507	590	657	771	648	629	669	603	568
Computer sciences .....	451	489	509	543	616	514	521	558	483	458
Biological sciences .....	3,525	3,568	3,752	4,088	4,329	4,365	4,254	4,304	4,113	4,260
Agricultural sciences .....	620	573	506	616	598	576	551	543	491	501
Psychology .....	3,018	2,986	3,161	3,136	3,184	3,228	3,135	3,274	3,238	3,221
Social sciences .....	2,390	2,401	2,524	2,692	2,721	2,793	2,876	2,839	2,854	2,907
Non-S&E, total .....	11,516	12,048	12,134	12,707	13,062	12,879	12,682	12,889	12,490	12,773
Health .....	839	855	939	1,050	1,044	1,016	1,027	1,153	1,039	1,188
Humanities <sup>1</sup> .....	3,194	3,440	3,511	3,766	4,055	4,045	4,234	4,324	4,274	4,383
Education .....	5,788	6,017	5,968	6,063	5,995	6,062	5,745	5,740	5,617	5,656
Professional/other .....	1,695	1,736	1,716	1,828	1,968	1,756	1,676	1,672	1,560	1,546
Grand total, all fields .....	27,430	27,990	28,707	30,894	32,058	31,517	31,081	31,134	29,942	29,837
U.S. citizens or permanent residents, American Indian/Alaskan Native										
Science and engineering, total .....	56	69	43	64	68	97	79	96	116	88
Engineering, total .....	6	11	2	6	9	15	17	13	12	8
Chemical .....	1	1	1	1	2	1	4	3	2	1
Civil .....	1	1	0	0	0	2	2	0	2	1
Electrical .....	2	4	0	1	1	2	5	3	1	0
Mechanical .....	1	1	0	0	2	4	6	2	2	3
Other engineering .....	1	4	1	4	4	6	0	5	5	3
Sciences, total .....	50	58	41	58	59	82	62	83	104	80
Physical sciences, total .....	10	12	5	6	7	6	10	10	10	9
Astronomy .....	0	0	1	0	0	0	1	1	2	1
Chemistry .....	9	6	2	4	5	4	6	7	5	7
Physics .....	1	6	2	2	2	2	2	2	3	1
Other physical sciences .....	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences .....	3	1	4	1	0	2	2	3	6	5
Mathematics .....	0	2	1	2	2	1	1	3	1	2
Computer sciences .....	1	2	1	1	0	4	1	3	1	1
Biological sciences .....	10	13	7	16	15	20	7	12	20	17
Agricultural sciences .....	4	0	1	1	2	6	5	9	2	4
Psychology .....	13	15	15	12	14	18	18	31	35	22
Social sciences .....	9	13	7	19	19	25	18	12	29	20
Non-S&E, total .....	76	80	77	79	80	91	87	93	101	81
Health .....	5	5	6	6	9	4	6	4	6	4
Humanities <sup>1</sup> .....	10	18	10	20	18	18	19	21	21	20
Education .....	56	50	51	37	41	60	51	50	59	51
Professional/other .....	5	7	10	16	12	9	11	18	15	6
Grand total, all fields .....	132	149	120	143	148	188	166	189	217	169

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, Asian/Pacific Islander										
Science and engineering, total .....	1,180	1,345	1,610	2,989	3,669	3,095	2,538	2,143	1,949	1,736
Engineering, total .....	405	451	527	867	1,033	897	707	556	516	447
Chemical .....	50	54	62	96	101	80	73	65	58	71
Civil .....	30	34	41	69	91	89	72	38	46	46
Electrical .....	140	175	199	304	322	276	256	206	173	141
Mechanical .....	62	78	93	179	189	166	113	90	90	73
Other engineering .....	123	110	132	219	330	286	193	157	149	116
Sciences, total .....	775	894	1,083	2,122	2,636	2,198	1,831	1,587	1,433	1,289
Physical sciences, total .....	172	227	265	600	751	503	402	333	257	203
Astronomy .....	0	4	4	10	22	12	8	13	3	13
Chemistry .....	122	135	157	332	416	295	235	206	187	120
Physics .....	50	88	103	255	312	195	158	113	67	69
Other physical sciences .....	0	0	1	3	1	1	1	1	0	1
Earth, atmospheric, & ocean sciences .....	17	27	22	89	104	77	72	51	39	29
Mathematics .....	57	52	79	142	208	140	97	71	58	70
Computer sciences .....	66	86	77	117	137	111	108	91	86	77
Biological sciences .....	261	269	370	720	924	890	723	658	617	550
Agricultural sciences .....	24	37	29	72	78	81	63	47	45	31
Psychology .....	59	59	73	109	122	124	127	114	129	149
Social sciences .....	119	137	168	273	312	272	239	222	202	180
Non-S&E, total .....	351	419	407	557	640	604	582	579	566	579
Health .....	44	52	45	94	93	87	87	85	85	99
Humanities <sup>1</sup> .....	81	99	108	151	194	191	180	194	197	185
Education .....	130	144	144	173	179	185	181	179	168	174
Professional/other .....	96	124	110	139	174	141	134	121	116	121
Grand total, all fields .....	1,531	1,764	2,017	3,546	4,309	3,699	3,120	2,722	2,515	2,315
U.S. citizens or permanent residents, black										
Science and engineering, total .....	464	408	469	500	560	576	623	646	716	728
Engineering, total .....	55	49	50	54	71	74	98	84	97	83
Chemical .....	8	13	6	8	3	12	16	3	11	9
Civil .....	12	3	5	8	11	8	10	10	6	6
Electrical .....	16	17	15	17	24	22	31	23	29	21
Mechanical .....	3	5	3	7	14	10	12	14	12	18
Other engineering .....	16	11	21	14	19	22	29	34	39	29
Sciences, total .....	409	359	419	446	489	502	525	562	619	645
Physical sciences, total .....	32	25	41	46	43	60	52	56	66	62
Astronomy .....	0	1	2	0	1	0	2	1	2	1
Chemistry .....	23	17	31	34	33	45	35	45	56	44
Physics .....	9	6	7	11	9	15	15	10	8	16
Other physical sciences .....	0	1	1	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	3	6	4	6	3	4	8	9	14	7
Mathematics .....	11	4	8	11	5	8	7	16	12	14
Computer sciences .....	8	5	6	10	11	12	4	14	18	18
Biological sciences .....	64	62	75	79	108	98	111	110	116	123
Agricultural sciences .....	17	14	16	22	17	25	25	19	24	18
Psychology .....	130	106	119	124	151	154	156	156	173	193
Social sciences .....	144	137	150	148	151	141	162	182	196	210
Non-S&E, total .....	702	708	811	779	915	880	865	956	1,012	1,047
Health .....	40	38	59	46	60	49	55	65	56	75
Humanities <sup>1</sup> .....	92	90	98	106	114	119	142	141	167	161
Education .....	472	501	557	521	627	608	558	651	652	699
Professional/other .....	98	79	97	106	114	104	110	99	137	112
Grand total, all fields .....	1,166	1,116	1,280	1,279	1,475	1,456	1,488	1,602	1,728	1,775

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, Hispanic										
Science and engineering, total .....	493	513	542	548	563	618	656	753	710	704
Engineering, total .....	61	71	66	66	76	97	95	110	82	80
Chemical .....	11	16	10	7	12	18	6	13	7	17
Civil .....	5	7	12	14	11	6	12	16	12	8
Electrical .....	16	17	17	21	15	27	25	31	29	22
Mechanical .....	9	11	5	8	8	12	15	19	9	12
Other engineering .....	20	20	22	16	30	34	37	31	25	21
Sciences, total .....	432	442	476	482	487	521	561	643	628	624
Physical sciences, total .....	65	72	79	90	73	66	69	54	62	77
Astronomy .....	1	4	2	2	4	2	3	2	0	3
Chemistry .....	46	42	51	59	43	35	44	34	46	50
Physics .....	18	26	26	29	26	29	22	18	16	23
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	16	16	13	8	13	19	16	16	21	18
Mathematics .....	9	12	16	13	15	10	20	27	15	14
Computer sciences .....	12	8	7	7	6	16	17	14	14	13
Biological sciences .....	95	102	114	131	125	128	146	168	173	173
Agricultural sciences .....	15	18	20	25	21	12	27	35	15	26
Psychology .....	122	133	131	133	145	173	170	208	208	194
Social sciences .....	98	81	96	75	89	97	96	121	120	109
Non-S&E, total .....	375	396	430	482	491	485	537	571	580	575
Health .....	16	13	24	25	30	38	32	37	46	34
Humanities <sup>1</sup> .....	136	129	144	168	154	178	207	197	194	208
Education .....	189	214	222	241	258	216	255	289	285	281
Professional/other .....	34	40	40	48	49	53	43	48	55	52
Grand total, all fields .....	868	909	972	1,030	1,054	1,103	1,193	1,324	1,290	1,279
U.S. citizens or permanent residents, Puerto Rican										
Science and engineering, total .....	99	120	112	131	137	140	173	173	183	168
Engineering, total .....	9	13	10	10	13	22	23	17	23	20
Chemical .....	2	3	2	2	4	4	1	3	2	5
Civil .....	1	1	1	1	1	1	5	1	2	2
Electrical .....	0	3	5	3	3	4	4	3	11	6
Mechanical .....	2	1	1	1	1	3	6	5	2	2
Other engineering .....	4	5	1	3	4	10	7	5	6	5
Sciences, total .....	90	107	102	121	124	118	150	156	160	148
Physical sciences, total .....	17	20	17	26	21	12	20	11	22	19
Astronomy .....	0	1	0	0	1	0	0	1	0	0
Chemistry .....	14	14	14	19	17	9	13	9	18	18
Physics .....	3	5	3	7	3	3	7	1	4	1
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	3	1	0	2	3	6	5	5	5
Mathematics .....	0	2	1	1	1	3	4	7	2	2
Computer sciences .....	3	1	1	4	0	5	6	2	6	4
Biological sciences .....	23	27	27	28	30	30	37	43	47	33
Agricultural sciences .....	0	3	10	5	3	4	5	3	1	6
Psychology .....	20	35	24	43	44	48	56	71	56	60
Social sciences .....	27	16	21	14	23	13	16	14	21	19
Non-S&E, total .....	92	109	120	126	132	109	141	135	150	139
Health .....	3	4	3	6	12	7	10	7	11	9
Humanities <sup>1</sup> .....	30	22	36	38	30	38	49	37	31	44
Education .....	52	76	70	68	69	51	71	77	89	71
Professional/other .....	7	7	11	14	21	13	11	14	19	15
Grand total, all fields .....	191	229	232	257	269	249	314	308	333	307

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, Mexican American										
Science and engineering, total .....	126	120	122	145	148	144	160	223	163	210
Engineering, total .....	14	10	12	15	19	26	18	30	13	25
Chemical .....	4	1	1	1	3	3	2	1	0	4
Civil .....	2	2	0	2	7	2	2	5	3	3
Electrical .....	3	3	2	4	3	9	5	7	4	4
Mechanical .....	3	2	0	2	2	3	3	3	1	6
Other engineering .....	2	2	9	6	4	9	6	14	5	8
Sciences, total .....	112	110	110	130	129	118	142	193	150	185
Physical sciences, total .....	15	9	12	24	13	22	15	21	16	23
Astronomy .....	0	0	0	1	1	1	0	1	0	1
Chemistry .....	12	6	8	19	8	14	9	15	9	17
Physics .....	3	3	4	4	4	7	6	5	7	5
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	4	7	2	4	4	5	3	5	5	5
Mathematics .....	3	4	4	4	6	1	3	6	7	8
Computer sciences .....	0	3	1	2	3	1	2	3	1	4
Biological sciences .....	26	24	24	30	27	28	44	54	41	46
Agricultural sciences .....	5	5	4	6	4	1	2	10	3	6
Psychology .....	35	37	42	40	48	38	49	53	43	60
Social sciences .....	24	21	21	20	24	22	24	41	34	33
Non-S&E, total .....	106	99	130	163	140	144	145	199	181	201
Health .....	3	5	8	5	8	6	7	15	16	11
Humanities <sup>1</sup> .....	27	24	35	42	34	41	38	58	46	61
Education .....	67	58	74	102	93	79	90	115	101	116
Professional/other .....	9	12	13	14	5	18	10	11	18	13
Grand total, all fields .....	232	219	252	308	288	288	305	422	344	411
U.S. citizens or permanent residents, other Hispanic										
Science and engineering, total .....	268	273	308	272	278	334	323	357	364	326
Engineering, total .....	38	48	44	41	44	49	54	63	46	35
Chemical .....	5	12	7	4	5	11	3	9	5	8
Civil .....	2	4	11	11	3	3	5	10	7	3
Electrical .....	13	11	10	14	9	14	16	21	14	12
Mechanical .....	4	8	4	5	5	6	6	11	6	4
Other engineering .....	14	13	12	7	22	15	24	12	14	8
Sciences, total .....	230	225	264	231	234	285	269	294	318	291
Physical sciences, total .....	33	43	50	40	39	32	34	22	24	35
Astronomy .....	1	3	2	1	2	1	3	0	0	2
Chemistry .....	20	22	29	21	18	12	22	10	19	15
Physics .....	12	18	19	18	19	19	9	12	5	17
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	12	6	10	4	7	11	7	6	11	8
Mathematics .....	6	6	11	8	8	6	13	14	6	4
Computer sciences .....	9	4	5	1	3	10	9	9	7	5
Biological sciences .....	46	51	63	73	68	70	65	71	85	94
Agricultural sciences .....	10	10	6	14	14	7	20	22	11	14
Psychology .....	67	61	65	50	53	87	65	84	109	74
Social sciences .....	47	44	54	41	42	62	56	66	65	57
Non-S&E, total .....	177	188	180	193	219	232	251	237	249	235
Health .....	10	4	13	14	10	25	15	15	19	14
Humanities <sup>1</sup> .....	79	83	73	88	90	99	120	102	117	103
Education .....	70	80	78	71	96	86	94	97	95	94
Professional/other .....	18	21	16	20	23	22	22	23	18	24
Grand total, all fields .....	445	461	488	465	497	566	574	594	613	561

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, white										
Science and engineering, total .....	13,324	13,327	13,737	13,890	13,906	14,007	13,827	14,008	13,660	13,415
Engineering, total .....	1,837	1,880	2,025	2,020	2,093	2,262	2,287	2,170	2,103	1,878
Chemical .....	322	284	295	259	257	275	294	276	286	278
Civil .....	159	166	168	199	194	199	220	216	241	193
Electrical .....	478	487	553	548	590	588	578	523	510	442
Mechanical .....	266	326	328	337	339	392	376	371	334	276
Other engineering .....	612	617	681	677	713	808	819	784	732	689
Sciences, total .....	11,487	11,447	11,712	11,870	11,813	11,745	11,540	11,838	11,557	11,537
Physical sciences, total .....	1,969	1,974	1,911	2,025	1,924	1,887	1,883	1,912	1,834	1,685
Astronomy .....	83	95	100	97	111	131	132	120	109	116
Chemistry .....	1,239	1,220	1,145	1,179	1,112	1,063	1,078	1,127	1,088	984
Physics .....	634	641	656	736	687	684	658	649	626	568
Other physical sciences .....	13	18	10	13	14	9	15	16	11	17
Earth, atmospheric, & ocean sciences .....	557	485	455	504	464	449	487	464	431	432
Mathematics .....	419	425	476	479	535	479	479	526	505	460
Computer sciences .....	355	378	410	401	452	356	361	411	348	337
Biological sciences .....	3,041	3,068	3,146	3,107	3,118	3,175	3,158	3,246	3,127	3,306
Agricultural sciences .....	545	493	438	487	473	444	411	418	398	412
Psychology .....	2,652	2,636	2,807	2,730	2,727	2,744	2,523	2,650	2,668	2,601
Social sciences .....	1,949	1,988	2,069	2,137	2,120	2,211	2,238	2,211	2,246	2,304
Non-S&E, total .....	9,862	10,299	10,315	10,705	10,815	10,683	10,126	10,277	10,046	10,236
Health .....	720	735	800	867	836	823	827	930	832	954
Humanities <sup>1</sup> .....	2,821	3,061	3,109	3,283	3,521	3,487	3,525	3,605	3,619	3,698
Education .....	4,889	5,051	4,965	5,044	4,853	4,943	4,451	4,413	4,382	4,357
Professional/other .....	1,432	1,452	1,441	1,511	1,605	1,430	1,323	1,329	1,213	1,227
Grand total, all fields .....	23,186	23,626	24,052	24,595	24,721	24,690	23,953	24,285	23,706	23,651
U.S. citizens or permanent residents, men										
Science and engineering, total .....	10,317	10,365	10,549	11,693	12,084	11,675	11,406	11,082	10,442	9,950
Engineering, total .....	2,158	2,192	2,349	2,605	2,822	2,862	2,816	2,593	2,384	2,072
Chemical .....	339	296	313	302	293	293	332	297	296	281
Civil .....	188	192	195	237	257	258	269	239	250	212
Electrical .....	638	652	715	811	851	822	832	713	682	553
Mechanical .....	322	401	398	484	514	528	482	466	401	339
Other engineering .....	671	651	728	771	907	961	901	878	755	687
Sciences, total .....	8,159	8,173	8,200	9,088	9,262	8,813	8,590	8,489	8,058	7,878
Physical sciences, total .....	1,846	1,843	1,809	2,164	2,133	1,959	1,910	1,849	1,718	1,537
Astronomy .....	79	91	88	91	116	114	132	120	92	104
Chemistry .....	1,093	1,040	999	1,152	1,087	1,023	1,008	1,003	978	814
Physics .....	663	696	712	907	916	814	759	715	642	605
Other physical sciences .....	11	16	10	14	14	8	11	11	6	14
Earth, atmospheric, & ocean sciences .....	461	394	384	469	450	428	443	391	372	342
Mathematics .....	406	390	426	506	588	503	452	471	411	405
Computer sciences .....	357	406	400	449	473	423	421	435	379	372
Biological sciences .....	2,135	2,130	2,168	2,345	2,470	2,424	2,335	2,386	2,254	2,276
Agricultural sciences .....	483	423	372	456	463	401	396	360	331	336
Psychology .....	1,128	1,206	1,223	1,169	1,128	1,045	1,023	1,065	1,054	1,046
Social sciences .....	1,343	1,381	1,418	1,530	1,557	1,630	1,610	1,532	1,539	1,564
Non-S&E, total .....	5,295	5,447	5,439	5,679	5,791	5,517	5,506	5,479	5,308	5,299
Health .....	252	226	260	328	325	293	288	310	324	341
Humanities <sup>1</sup> .....	1,703	1,832	1,815	1,978	2,075	2,000	2,202	2,220	2,196	2,211
Education .....	2,347	2,347	2,378	2,307	2,243	2,238	2,059	2,056	1,949	1,919
Professional/other .....	993	1,042	986	1,066	1,148	986	957	893	839	828
Grand total, all fields .....	15,612	15,812	15,988	17,372	17,875	17,192	16,912	16,561	15,750	15,249

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, men, American Indian/Alaskan Native										
Science and engineering, total .....	37	42	25	40	42	62	45	54	60	43
Engineering, total .....	4	8	2	4	9	13	14	9	10	4
Chemical .....	0	1	1	1	2	1	3	0	1	0
Civil .....	1	0	0	0	0	1	1	0	1	0
Electrical .....	1	3	0	1	1	1	5	3	1	0
Mechanical .....	1	1	0	0	2	4	5	2	2	2
Other engineering .....	1	3	1	2	4	6	0	4	5	2
Sciences, total .....	33	34	23	36	33	49	31	45	50	39
Physical sciences, total .....	8	10	3	5	5	5	10	9	7	7
Astronomy .....	0	0	1	0	0	0	1	1	1	0
Chemistry .....	7	4	1	4	3	3	6	6	3	6
Physics .....	1	6	1	1	2	2	2	2	3	1
Other physical sciences .....	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences .....	2	1	4	1	0	2	1	2	3	4
Mathematics .....	0	1	1	2	1	1	1	1	1	1
Computer sciences .....	1	2	0	0	0	2	0	3	0	1
Biological sciences .....	6	8	5	11	10	11	4	6	10	10
Agricultural sciences .....	4	0	1	1	2	2	5	7	1	3
Psychology .....	5	6	6	5	6	9	6	13	12	3
Social sciences .....	7	6	3	11	9	17	4	4	16	10
Non-S&E, total .....	37	40	35	31	38	41	33	50	37	33
Health .....	3	3	0	1	2	1	2	1	0	1
Humanities <sup>1</sup> .....	3	12	7	12	10	10	8	14	11	11
Education .....	29	20	21	10	17	22	18	26	19	17
Professional/other .....	2	5	7	8	9	8	5	9	7	4
Grand total, all fields .....	74	82	60	71	80	103	78	104	97	76
U.S. citizens or permanent residents, men, Asian/Pacific Islander										
Science and engineering, total .....	806	927	1,079	2,169	2,554	2,112	1,644	1,379	1,225	1,046
Engineering, total .....	356	390	466	748	863	763	588	458	430	338
Chemical .....	41	38	55	71	76	62	61	46	44	49
Civil .....	26	32	39	65	77	75	58	32	41	36
Electrical .....	135	154	174	273	276	246	217	175	147	108
Mechanical .....	59	74	90	155	166	149	97	79	77	57
Other engineering .....	95	92	108	184	268	231	155	126	121	88
Sciences, total .....	450	537	613	1,421	1,691	1,349	1,056	921	795	708
Physical sciences, total .....	124	147	168	422	540	358	269	231	162	132
Astronomy .....	0	2	2	9	18	8	7	10	3	9
Chemistry .....	86	79	85	203	270	187	142	134	105	66
Physics .....	38	66	80	208	251	162	120	86	54	57
Other physical sciences .....	0	0	1	2	1	1	0	1	0	0
Earth, atmospheric, & ocean sciences .....	11	19	14	72	76	65	52	32	28	17
Mathematics .....	39	33	43	116	158	104	69	44	36	49
Computer sciences .....	51	74	58	101	107	95	82	68	67	62
Biological sciences .....	132	136	198	451	513	483	373	367	335	282
Agricultural sciences .....	16	25	20	52	62	51	45	29	28	22
Psychology .....	15	20	22	32	43	31	32	29	34	48
Social sciences .....	62	83	90	175	192	162	134	121	105	96
Non-S&E, total .....	166	209	208	300	312	290	246	261	259	219
Health .....	21	22	22	48	52	47	37	35	38	36
Humanities <sup>1</sup> .....	39	48	42	84	83	86	73	81	85	67
Education .....	45	48	58	66	59	71	52	71	62	53
Professional/other .....	61	91	86	102	118	86	84	74	74	63
Grand total, all fields .....	972	1,136	1,287	2,469	2,866	2,402	1,890	1,640	1,484	1,265

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, men, black										
Science and engineering, total .....	270	238	261	284	290	323	332	296	349	324
Engineering, total .....	47	43	39	41	56	55	75	62	73	58
Chemical .....	7	12	3	4	2	7	10	2	7	3
Civil .....	10	3	3	6	8	7	10	8	4	5
Electrical .....	14	15	13	14	20	17	27	19	24	19
Mechanical .....	2	5	3	6	13	7	11	14	11	13
Other engineering .....	14	8	17	11	13	17	17	19	27	18
Sciences, total .....	223	195	222	243	234	268	257	234	276	266
Physical sciences, total .....	27	19	31	33	25	47	41	25	37	41
Astronomy .....	0	0	2	0	1	0	1	1	0	0
Chemistry .....	18	12	22	25	16	35	26	17	33	25
Physics .....	9	6	7	7	8	12	14	7	4	15
Other physical sciences .....	0	1	0	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	2	5	4	5	3	2	7	6	9	3
Mathematics .....	7	4	7	8	4	6	5	9	6	7
Computer sciences .....	4	4	2	8	7	9	3	6	9	13
Biological sciences .....	32	38	43	34	65	58	51	41	50	47
Agricultural sciences .....	16	10	12	16	11	25	19	15	16	10
Psychology .....	44	28	44	46	39	39	43	43	40	45
Social sciences .....	91	87	79	93	80	82	88	89	109	100
Non-S&E, total .....	282	281	318	269	325	318	309	318	345	326
Health .....	17	14	18	11	18	13	15	14	12	14
Humanities <sup>1</sup> .....	44	47	56	51	53	53	68	69	70	71
Education .....	179	174	201	161	204	203	173	192	195	188
Professional/other .....	42	46	43	46	50	49	53	43	68	53
Grand total, all fields .....	552	519	579	553	615	641	641	614	694	650
U.S. citizens or permanent residents, men, Hispanic										
Science and engineering, total .....	307	308	320	318	336	346	392	427	355	370
Engineering, total .....	51	56	54	60	65	82	72	97	59	68
Chemical .....	7	12	7	7	10	12	3	13	3	14
Civil .....	3	6	10	11	10	6	11	13	6	7
Electrical .....	16	14	14	21	14	23	19	29	25	21
Mechanical .....	7	9	5	7	8	12	12	18	8	11
Other engineering .....	18	15	18	14	23	29	27	24	17	15
Sciences, total .....	256	252	266	258	271	264	320	330	296	302
Physical sciences, total .....	54	52	59	69	52	54	54	43	40	52
Astronomy .....	1	3	2	2	2	1	2	2	0	2
Chemistry .....	37	26	33	43	29	28	32	25	25	29
Physics .....	16	23	24	24	21	25	20	16	15	20
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	14	10	11	6	7	13	11	10	17	15
Mathematics .....	5	9	14	10	11	10	14	20	10	7
Computer sciences .....	11	7	6	7	2	9	15	13	11	10
Biological sciences .....	56	59	57	69	79	62	84	89	98	82
Agricultural sciences .....	12	14	15	13	16	9	20	22	8	15
Psychology .....	52	55	45	43	48	53	63	56	56	54
Social sciences .....	52	46	59	41	56	54	59	77	56	67
Non-S&E, total .....	152	174	197	200	201	214	232	255	212	229
Health .....	7	4	8	7	15	16	8	12	15	10
Humanities <sup>1</sup> .....	64	66	72	79	72	85	107	103	89	98
Education .....	65	82	94	82	91	87	93	112	86	99
Professional/other .....	16	22	23	32	23	26	24	28	22	22
Grand total, all fields .....	459	482	517	518	537	560	624	682	567	599

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, men, Puerto Rican										
Science and engineering, total .....	52	71	70	72	74	72	100	69	88	74
Engineering, total .....	7	10	8	10	11	17	19	16	15	16
Chemical .....	1	3	2	2	3	2	1	3	1	3
Civil .....	1	1	0	1	1	1	5	1	1	2
Electrical .....	0	2	4	3	3	4	3	3	9	6
Mechanical .....	2	0	1	1	1	3	6	5	2	2
Other engineering .....	3	4	1	3	3	7	4	4	2	3
Sciences, total .....	45	61	62	62	63	55	81	53	73	58
Physical sciences, total .....	11	14	12	19	12	8	18	6	13	9
Astronomy .....	0	1	0	0	0	0	0	1	0	0
Chemistry .....	9	9	9	13	9	6	11	4	9	8
Physics .....	2	4	3	6	3	2	7	1	4	1
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	3	1	0	1	3	4	2	4	5
Mathematics .....	0	1	1	1	0	3	3	4	2	1
Computer sciences .....	3	1	0	4	0	4	6	1	5	4
Biological sciences .....	12	16	16	14	21	12	21	20	24	11
Agricultural sciences .....	0	3	7	2	3	3	4	2	0	3
Psychology .....	6	16	13	13	13	15	20	12	16	12
Social sciences .....	13	7	12	9	13	7	5	6	9	13
Non-S&E, total .....	32	39	51	51	46	40	55	59	52	50
Health .....	2	3	0	2	7	2	3	3	5	3
Humanities <sup>1</sup> .....	11	10	18	16	14	16	26	20	14	19
Education .....	16	23	25	23	19	17	21	28	23	23
Professional/other .....	3	3	8	10	6	5	5	8	10	5
Grand total, all fields .....	84	110	121	123	120	112	155	128	140	124
U.S. citizens or permanent residents, men, Mexican American										
Science and engineering, total .....	84	79	73	87	89	91	91	136	90	125
Engineering, total .....	12	10	10	13	18	23	11	27	9	22
Chemical .....	3	1	1	1	2	2	1	1	0	3
Civil .....	2	2	0	2	7	2	1	4	1	3
Electrical .....	3	3	2	4	3	8	2	7	3	4
Mechanical .....	2	2	0	2	2	3	3	3	1	6
Other engineering .....	2	2	7	4	4	8	4	12	4	6
Sciences, total .....	72	69	63	74	71	68	80	109	81	103
Physical sciences, total .....	12	7	9	20	9	19	13	18	11	20
Astronomy .....	0	0	0	1	0	1	0	1	0	1
Chemistry .....	10	4	6	16	6	12	7	12	5	14
Physics .....	2	3	3	3	3	6	6	5	6	5
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	4	5	2	4	3	3	2	4	4	4
Mathematics .....	1	4	3	3	4	1	2	3	5	4
Computer sciences .....	0	3	1	2	1	1	2	3	1	3
Biological sciences .....	19	11	13	17	16	16	22	32	25	27
Agricultural sciences .....	4	4	3	4	3	1	2	7	3	4
Psychology .....	20	19	16	17	15	18	20	18	16	21
Social sciences .....	12	16	16	7	20	9	17	24	16	20
Non-S&E, total .....	48	46	59	74	70	71	70	83	70	82
Health .....	0	0	3	2	3	2	0	1	5	2
Humanities <sup>1</sup> .....	14	14	19	23	21	21	22	33	26	26
Education .....	28	26	30	38	42	38	42	44	34	47
Professional/other .....	6	6	7	11	4	10	6	5	5	7
Grand total, all fields .....	132	125	132	161	159	162	161	219	160	207

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, men, other Hispanic										
Science and engineering, total .....	171	158	177	159	173	183	201	222	177	171
Engineering, total .....	32	36	36	37	36	42	42	54	35	30
Chemical .....	3	8	4	4	5	8	1	9	2	8
Civil .....	0	3	10	8	2	3	5	8	4	2
Electrical .....	13	9	8	14	8	11	14	19	13	11
Mechanical .....	3	7	4	4	5	6	3	10	5	3
Other engineering .....	13	9	10	7	16	14	19	8	11	6
Sciences, total .....	139	122	141	122	137	141	159	168	142	141
Physical sciences, total .....	31	31	38	30	31	27	23	19	16	23
Astronomy .....	1	2	2	1	2	0	2	0	0	1
Chemistry .....	18	13	18	14	14	10	14	9	11	7
Physics .....	12	16	18	15	15	17	7	10	5	14
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	10	2	8	2	3	7	5	4	9	6
Mathematics .....	4	4	10	6	7	6	9	13	3	2
Computer sciences .....	8	3	5	1	1	4	7	9	5	3
Biological sciences .....	25	32	28	38	42	34	41	37	49	44
Agricultural sciences .....	8	7	5	7	10	5	14	13	5	8
Psychology .....	26	20	16	13	20	20	23	26	24	21
Social sciences .....	27	23	31	25	23	38	37	47	31	34
Non-S&E, total .....	72	89	87	75	85	103	107	113	90	97
Health .....	5	1	5	3	5	12	5	8	5	5
Humanities <sup>1</sup> .....	39	42	35	40	37	48	59	50	49	53
Education .....	21	33	39	21	30	32	30	40	29	29
Professional/other .....	7	13	8	11	13	11	13	15	7	10
Grand total, all fields .....	243	247	264	234	258	286	308	335	267	268
U.S. citizens or permanent residents, men, white										
Science and engineering, total .....	8,585	8,624	8,725	8,732	8,683	8,652	8,560	8,519	8,232	7,909
Engineering, total .....	1,602	1,640	1,764	1,715	1,772	1,915	1,955	1,864	1,751	1,549
Chemical .....	277	225	244	211	197	206	242	224	236	212
Civil .....	143	147	143	153	160	168	180	171	194	159
Electrical .....	444	447	504	494	523	522	524	470	465	389
Mechanical .....	236	307	296	311	314	353	343	334	289	243
Other engineering .....	502	514	577	546	578	666	666	665	567	546
Sciences, total .....	6,983	6,984	6,961	7,017	6,911	6,737	6,605	6,655	6,481	6,360
Physical sciences, total .....	1,586	1,575	1,523	1,617	1,476	1,456	1,471	1,464	1,438	1,265
Astronomy .....	77	84	79	78	92	101	110	96	87	89
Chemistry .....	926	902	846	872	760	755	773	784	795	661
Physics .....	573	575	590	656	613	593	578	575	550	503
Other physical sciences .....	10	14	8	11	11	7	10	9	6	12
Earth, atmospheric, & ocean sciences .....	415	353	345	381	356	340	358	324	306	292
Mathematics .....	335	332	352	361	409	374	344	376	347	334
Computer sciences .....	282	309	327	326	348	295	295	327	278	275
Biological sciences .....	1,871	1,847	1,835	1,758	1,773	1,774	1,759	1,811	1,723	1,794
Agricultural sciences .....	422	364	323	367	369	307	293	278	274	277
Psychology .....	991	1,078	1,096	1,029	983	907	832	887	905	877
Social sciences .....	1,081	1,126	1,160	1,178	1,197	1,284	1,253	1,188	1,210	1,246
Non-S&E, total .....	4,569	4,656	4,623	4,827	4,851	4,581	4,434	4,378	4,364	4,365
Health .....	199	177	208	258	234	212	219	235	255	271
Humanities <sup>1</sup> .....	1,516	1,629	1,606	1,727	1,820	1,735	1,848	1,854	1,902	1,895
Education .....	2,002	1,997	1,992	1,968	1,858	1,832	1,618	1,588	1,558	1,531
Professional/other .....	852	853	817	874	939	802	749	701	649	668
Grand total, all fields .....	13,154	13,280	13,348	13,559	13,534	13,233	12,994	12,897	12,596	12,274

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, women										
Science and engineering, total .....	5,597	5,577	6,024	6,494	6,912	6,963	6,993	7,163	7,010	7,114
Engineering, total .....	316	328	348	448	520	525	513	451	492	484
Chemical .....	60	82	64	78	88	98	77	76	75	99
Civil .....	25	23	32	55	52	47	58	58	61	48
Electrical .....	48	67	80	88	120	106	106	91	82	90
Mechanical .....	37	25	36	54	49	60	55	50	60	56
Other engineering .....	146	131	136	173	211	214	217	176	214	191
Sciences, total .....	5,281	5,249	5,676	6,046	6,392	6,438	6,480	6,712	6,518	6,630
Physical sciences, total .....	454	514	521	625	708	610	587	603	553	547
Astronomy .....	7	15	23	21	25	35	26	27	25	36
Chemistry .....	368	401	401	464	537	439	431	462	426	422
Physics .....	76	94	94	137	143	134	124	107	96	83
Other physical sciences .....	3	4	3	3	3	2	6	7	6	6
Earth, atmospheric, & ocean sciences .....	157	147	120	144	144	130	164	171	151	167
Mathematics .....	112	117	164	151	183	145	177	198	192	163
Computer sciences .....	94	83	109	94	143	91	100	123	104	86
Biological sciences .....	1,390	1,438	1,584	1,743	1,859	1,941	1,919	1,918	1,859	1,984
Agricultural sciences .....	137	150	134	160	135	175	155	183	160	165
Psychology .....	1,890	1,780	1,938	1,967	2,056	2,183	2,112	2,209	2,184	2,175
Social sciences .....	1,047	1,020	1,106	1,162	1,164	1,163	1,266	1,307	1,315	1,343
Non-S&E, total .....	6,221	6,601	6,695	7,028	7,271	7,362	7,176	7,410	7,182	7,474
Health .....	587	629	679	722	719	723	739	843	715	847
Humanities <sup>1</sup> .....	1,491	1,608	1,696	1,788	1,980	2,045	2,032	2,104	2,078	2,172
Education .....	3,441	3,670	3,590	3,756	3,752	3,824	3,686	3,684	3,668	3,737
Professional/other .....	702	694	730	762	820	770	719	779	721	718
Grand total, all fields .....	11,818	12,178	12,719	13,522	14,183	14,325	14,169	14,573	14,192	14,588
U.S. citizens or permanent residents, women, American Indian/Alaskan Native										
Science and engineering, total .....	19	27	18	24	26	35	34	42	56	45
Engineering, total .....	2	3	0	2	0	2	3	4	2	4
Chemical .....	1	0	0	0	0	0	1	3	1	1
Civil .....	0	1	0	0	0	1	1	0	1	1
Electrical .....	1	1	0	0	0	1	0	0	0	0
Mechanical .....	0	0	0	0	0	0	1	0	0	1
Other engineering .....	0	1	0	2	0	0	0	1	0	1
Sciences, total .....	17	24	18	22	26	33	31	38	54	41
Physical sciences, total .....	2	2	2	1	2	1	0	1	3	2
Astronomy .....	0	0	0	0	0	0	0	0	1	1
Chemistry .....	2	2	1	0	2	1	0	1	2	1
Physics .....	0	0	1	1	0	0	0	0	0	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	0	0	0	0	0	1	1	3	1
Mathematics .....	0	1	0	0	1	0	0	2	0	1
Computer sciences .....	0	0	1	1	0	2	1	0	1	0
Biological sciences .....	4	5	2	5	5	9	3	6	10	7
Agricultural sciences .....	0	0	0	0	0	4	0	2	1	1
Psychology .....	8	9	9	7	8	9	12	18	23	19
Social sciences .....	2	7	4	8	10	8	14	8	13	10
Non-S&E, total .....	39	40	42	48	42	50	54	43	64	48
Health .....	2	2	6	5	7	3	4	3	6	3
Humanities <sup>1</sup> .....	7	6	3	8	8	8	11	7	10	9
Education .....	27	30	30	27	24	38	33	24	40	34
Professional/other .....	3	2	3	8	3	1	6	9	8	2
Grand total, all fields .....	58	67	60	72	68	85	88	85	120	93

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, women, Asian/Pacific Islander										
Science and engineering, total .....	374	418	531	820	1,115	983	894	764	724	690
Engineering, total .....	49	61	61	119	170	134	119	98	86	109
Chemical .....	9	16	7	25	25	18	12	19	14	22
Civil .....	4	2	2	4	14	14	14	6	5	10
Electrical .....	5	21	25	31	46	30	39	31	26	33
Mechanical .....	3	4	3	24	23	17	16	11	13	16
Other engineering .....	28	18	24	35	62	55	38	31	28	28
Sciences, total .....	325	357	470	701	945	849	775	666	638	581
Physical sciences, total .....	48	80	97	178	211	145	133	102	95	71
Astronomy .....	0	2	2	1	4	4	1	3	0	4
Chemistry .....	36	56	72	129	146	108	93	72	82	54
Physics .....	12	22	23	47	61	33	38	27	13	12
Other physical sciences .....	0	0	0	1	0	0	1	0	0	1
Earth, atmospheric, & ocean sciences .....	6	8	8	17	28	12	20	19	11	12
Mathematics .....	18	19	36	26	50	36	28	27	22	21
Computer sciences .....	15	12	19	16	30	16	26	23	19	15
Biological sciences .....	129	133	172	269	411	407	350	291	282	268
Agricultural sciences .....	8	12	9	20	16	30	18	18	17	9
Psychology .....	44	39	51	77	79	93	95	85	95	101
Social sciences .....	57	54	78	98	120	110	105	101	97	84
Non-S&E, total .....	185	210	199	257	328	314	336	318	307	360
Health .....	23	30	23	46	41	40	50	50	47	63
Humanities <sup>1</sup> .....	42	51	66	67	111	105	107	113	112	118
Education .....	85	96	86	107	120	114	129	108	106	121
Professional/other .....	35	33	24	37	56	55	50	47	42	58
Grand total, all fields .....	559	628	730	1,077	1,443	1,297	1,230	1,082	1,031	1,050
U.S. citizens or permanent residents, women, black										
Science and engineering, total .....	194	170	208	216	270	253	291	350	367	404
Engineering, total .....	8	6	11	13	15	19	23	22	24	25
Chemical .....	1	1	3	4	1	5	6	1	4	6
Civil .....	2	0	2	2	3	1	0	2	2	1
Electrical .....	2	2	2	3	4	5	4	4	5	2
Mechanical .....	1	0	0	1	1	3	1	0	1	5
Other engineering .....	2	3	4	3	6	5	12	15	12	11
Sciences, total .....	186	164	197	203	255	234	268	328	343	379
Physical sciences, total .....	5	6	10	13	18	13	11	31	29	21
Astronomy .....	0	1	0	0	0	0	1	0	2	1
Chemistry .....	5	5	9	9	17	10	9	28	23	19
Physics .....	0	0	0	4	1	3	1	3	4	1
Other physical sciences .....	0	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	1	0	1	0	2	1	3	5	4
Mathematics .....	4	0	1	3	1	2	2	7	6	7
Computer sciences .....	4	1	4	2	4	3	1	8	9	5
Biological sciences .....	32	24	32	45	43	40	60	69	66	76
Agricultural sciences .....	1	4	4	6	6	0	6	4	8	8
Psychology .....	86	78	75	78	112	115	113	113	133	148
Social sciences .....	53	50	71	55	71	59	74	93	87	110
Non-S&E, total .....	420	427	493	510	590	562	556	638	667	721
Health .....	23	24	41	35	42	36	40	51	44	61
Humanities <sup>1</sup> .....	48	43	42	55	61	66	74	72	97	90
Education .....	293	327	356	360	423	405	385	459	457	511
Professional/other .....	56	33	54	60	64	55	57	56	69	59
Grand total, all fields .....	614	597	701	726	860	815	847	988	1,034	1,125

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, women, Hispanic										
Science and engineering, total .....	186	205	222	230	227	272	264	326	355	334
Engineering, total .....	10	15	12	6	11	15	23	13	23	12
Chemical .....	4	4	3	0	2	6	3	0	4	3
Civil .....	2	1	2	3	1	0	1	3	6	1
Electrical .....	0	3	3	0	1	4	6	2	4	1
Mechanical .....	2	2	0	1	0	0	3	1	1	1
Other engineering .....	2	5	4	2	7	5	10	7	8	6
Sciences, total .....	176	190	210	224	216	257	241	313	332	322
Physical sciences, total .....	11	20	20	21	21	12	15	11	22	25
Astronomy .....	0	1	0	0	2	1	1	0	0	1
Chemistry .....	9	16	18	16	14	7	12	9	21	21
Physics .....	2	3	2	5	5	4	2	2	1	3
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	2	6	2	2	6	6	5	6	4	3
Mathematics .....	4	3	2	3	4	0	6	7	5	7
Computer sciences .....	1	1	1	0	4	7	2	1	3	3
Biological sciences .....	39	43	57	62	46	66	62	79	75	91
Agricultural sciences .....	3	4	5	12	5	3	7	13	7	11
Psychology .....	70	78	86	90	97	120	107	152	152	140
Social sciences .....	46	35	37	34	33	43	37	44	64	42
Non-S&E, total .....	223	222	233	282	290	271	305	316	368	346
Health .....	9	9	16	18	15	22	24	25	31	24
Humanities <sup>1</sup> .....	72	63	72	89	82	93	100	94	105	110
Education .....	124	132	128	159	167	129	162	177	199	182
Professional/other .....	18	18	17	16	26	27	19	20	33	30
Grand total, all fields .....	409	427	455	512	517	543	569	642	723	680
U.S. citizens or permanent residents, women, Puerto Rican										
Science and engineering, total .....	47	49	42	59	63	68	73	104	95	94
Engineering, total .....	2	3	2	0	2	5	4	1	8	4
Chemical .....	1	0	0	0	1	2	0	0	1	2
Civil .....	0	0	1	0	0	0	0	0	1	0
Electrical .....	0	1	1	0	0	0	1	0	2	0
Mechanical .....	0	1	0	0	0	0	0	0	0	0
Other engineering .....	1	1	0	0	1	3	3	1	4	2
Sciences, total .....	45	46	40	59	61	63	69	103	87	90
Physical sciences, total .....	6	6	5	7	9	4	2	5	9	10
Astronomy .....	0	0	0	0	1	0	0	0	0	0
Chemistry .....	5	5	5	6	8	3	2	5	9	10
Physics .....	1	1	0	1	0	1	0	0	0	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	0	0	0	1	0	2	3	1	0
Mathematics .....	0	1	0	0	1	0	1	3	0	1
Computer sciences .....	0	0	1	0	0	1	0	1	1	0
Biological sciences .....	11	11	11	14	9	18	16	23	23	22
Agricultural sciences .....	0	0	3	3	0	1	1	1	1	3
Psychology .....	14	19	11	30	31	33	36	59	40	48
Social sciences .....	14	9	9	5	10	6	11	8	12	6
Non-S&E, total .....	60	70	69	75	86	69	86	76	98	89
Health .....	1	1	3	4	5	5	7	4	6	6
Humanities <sup>1</sup> .....	19	12	18	22	16	22	23	17	17	25
Education .....	36	53	45	45	50	34	50	49	66	48
Professional/other .....	4	4	3	4	15	8	6	6	9	10
Grand total, all fields .....	107	119	111	134	149	137	159	180	193	183

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, women, Mexican American										
Science and engineering, total .....	42	41	49	58	59	53	69	87	73	85
Engineering, total .....	2	0	2	2	1	3	7	3	4	3
Chemical .....	1	0	0	0	1	1	1	0	0	1
Civil .....	0	0	0	0	0	0	1	1	2	0
Electrical .....	0	0	0	0	0	1	3	0	1	0
Mechanical .....	1	0	0	0	0	0	0	0	0	0
Other engineering .....	0	0	2	2	0	1	2	2	1	2
Sciences, total .....	40	41	47	56	58	50	62	84	69	82
Physical sciences, total .....	3	2	3	4	4	3	2	3	5	3
Astronomy .....	0	0	0	0	1	0	0	0	0	0
Chemistry .....	2	2	2	3	2	2	2	3	4	3
Physics .....	1	0	1	1	1	1	0	0	1	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	2	0	0	1	2	1	1	1	1
Mathematics .....	2	0	1	1	2	0	1	3	2	4
Computer sciences .....	0	0	0	0	2	0	0	0	0	1
Biological sciences .....	7	13	11	13	11	12	22	22	16	19
Agricultural sciences .....	1	1	1	2	1	0	0	3	0	2
Psychology .....	15	18	26	23	33	20	29	35	27	39
Social sciences .....	12	5	5	13	4	13	7	17	18	13
Non-S&E, total .....	58	53	71	89	70	73	75	116	111	119
Health .....	3	5	5	3	5	4	7	14	11	9
Humanities <sup>1</sup> .....	13	10	16	19	13	20	16	25	20	35
Education .....	39	32	44	64	51	41	48	71	67	69
Professional/other .....	3	6	6	3	1	8	4	6	13	6
Grand total, all fields .....	100	94	120	147	129	126	144	203	184	204
U.S. citizens or permanent residents, women, other Hispanic										
Science and engineering, total .....	97	115	131	113	105	151	122	135	187	155
Engineering, total .....	6	12	8	4	8	7	12	9	11	5
Chemical .....	2	4	3	0	0	3	2	0	3	0
Civil .....	2	1	1	3	1	0	0	2	3	1
Electrical .....	0	2	2	0	1	3	2	2	1	1
Mechanical .....	1	1	0	1	0	0	3	1	1	1
Other engineering .....	1	4	2	0	6	1	5	4	3	2
Sciences, total .....	91	103	123	109	97	144	110	126	176	150
Physical sciences, total .....	2	12	12	10	8	5	11	3	8	12
Astronomy .....	0	1	0	0	0	1	1	0	0	1
Chemistry .....	2	9	11	7	4	2	8	1	8	8
Physics .....	0	2	1	3	4	2	2	2	0	3
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	2	4	2	2	4	4	2	2	2	2
Mathematics .....	2	2	1	2	1	0	4	1	3	2
Computer sciences .....	1	1	0	0	2	6	2	0	2	2
Biological sciences .....	21	19	35	35	26	36	24	34	36	50
Agricultural sciences .....	2	3	1	7	4	2	6	9	6	6
Psychology .....	41	41	49	37	33	67	42	58	85	53
Social sciences .....	20	21	23	16	19	24	19	19	34	23
Non-S&E, total .....	105	99	93	118	134	129	144	124	159	138
Health .....	5	3	8	11	5	13	10	7	14	9
Humanities <sup>1</sup> .....	40	41	38	48	53	51	61	52	68	50
Education .....	49	47	39	50	66	54	64	57	66	65
Professional/other .....	11	8	8	9	10	11	9	8	11	14
Grand total, all fields .....	202	214	224	231	239	280	266	259	346	293

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens or permanent residents, women, white										
Science and engineering, total .....	4,739	4,703	5,012	5,158	5,223	5,355	5,267	5,489	5,428	5,506
Engineering, total .....	235	240	261	305	321	347	332	306	352	329
Chemical .....	45	59	51	48	60	69	52	52	50	66
Civil .....	16	19	25	46	34	31	40	45	47	34
Electrical .....	34	40	49	54	67	66	54	53	45	53
Mechanical .....	30	19	32	26	25	39	33	37	45	33
Other engineering .....	110	103	104	131	135	142	153	119	165	143
Sciences, total .....	4,504	4,463	4,751	4,853	4,902	5,008	4,935	5,183	5,076	5,177
Physical sciences, total .....	383	399	388	408	448	431	412	448	396	420
Astronomy .....	6	11	21	19	19	30	22	24	22	27
Chemistry .....	313	318	299	307	352	308	305	343	293	323
Physics .....	61	66	66	80	74	91	80	74	76	65
Other physical sciences .....	3	4	2	2	3	2	5	7	5	5
Earth, atmospheric, & ocean sciences .....	142	132	110	123	108	109	129	140	125	140
Mathematics .....	84	93	124	118	126	105	135	150	158	126
Computer sciences .....	73	69	83	75	104	61	66	84	70	62
Biological sciences .....	1,170	1,221	1,311	1,349	1,345	1,401	1,399	1,435	1,404	1,512
Agricultural sciences .....	123	129	115	120	104	137	118	140	124	135
Psychology .....	1,661	1,558	1,711	1,701	1,744	1,837	1,691	1,763	1,763	1,724
Social sciences .....	868	862	909	959	923	927	985	1,023	1,036	1,058
Non-S&E, total .....	5,293	5,643	5,692	5,878	5,964	6,102	5,692	5,899	5,682	5,871
Health .....	521	558	592	609	602	611	608	695	577	683
Humanities <sup>1</sup> .....	1,305	1,432	1,503	1,556	1,701	1,752	1,677	1,751	1,717	1,803
Education .....	2,887	3,054	2,973	3,076	2,995	3,111	2,833	2,825	2,824	2,826
Professional/other .....	580	599	624	637	666	628	574	628	564	559
Grand total, all fields .....	10,032	10,346	10,704	11,036	11,187	11,457	10,959	11,388	11,110	11,377
U.S. citizens										
Science and engineering, total .....	14,629	14,559	14,932	15,166	15,487	15,629	16,119	16,229	15,800	15,655
Engineering, total .....	2,086	2,109	2,228	2,215	2,386	2,594	2,736	2,565	2,473	2,206
Chemical .....	348	318	324	293	291	318	321	327	333	338
Civil .....	173	164	168	203	206	212	249	246	260	219
Electrical .....	554	597	630	634	683	707	751	638	637	527
Mechanical .....	297	352	347	359	383	436	455	434	396	339
Other engineering .....	714	678	759	726	823	921	960	920	847	783
Sciences, total .....	12,543	12,450	12,704	12,951	13,101	13,035	13,383	13,664	13,327	13,449
Physical sciences, total .....	2,120	2,157	2,093	2,198	2,137	2,076	2,131	2,139	2,029	1,885
Astronomy .....	84	100	106	103	120	137	151	132	110	128
Chemistry .....	1,351	1,328	1,272	1,291	1,238	1,169	1,234	1,286	1,254	1,116
Physics .....	671	709	704	789	764	761	731	705	654	622
Other physical sciences .....	14	20	11	15	15	9	15	16	11	19
Earth, atmospheric, & ocean sciences .....	592	506	463	507	478	462	537	500	472	475
Mathematics .....	463	454	496	504	554	490	530	576	537	513
Computer sciences .....	388	422	425	426	484	422	430	474	412	387
Biological sciences .....	3,314	3,328	3,449	3,422	3,494	3,547	3,670	3,753	3,649	3,895
Agricultural sciences .....	564	511	457	519	492	473	468	464	440	446
Psychology .....	2,953	2,900	3,071	3,052	3,083	3,124	3,046	3,181	3,168	3,146
Social sciences .....	2,149	2,172	2,250	2,323	2,379	2,441	2,571	2,577	2,620	2,702
Non-S&E, total .....	10,944	11,451	11,516	11,981	12,253	12,121	12,032	12,208	11,836	12,233
Health .....	779	809	879	961	938	933	958	1,071	962	1,113
Humanities <sup>1</sup> .....	2,975	3,211	3,273	3,486	3,747	3,726	3,945	4,020	3,991	4,150
Education .....	5,614	5,852	5,791	5,864	5,777	5,866	5,580	5,569	5,439	5,532
Professional/other .....	1,576	1,579	1,573	1,670	1,791	1,596	1,549	1,548	1,444	1,438
Grand total, all fields .....	25,573	26,010	26,448	27,147	27,740	27,750	28,151	28,437	27,636	27,888

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, American Indian/Alaskan Native										
Science and engineering, total .....	56	69	43	64	68	96	79	96	116	88
Engineering, total .....	6	11	2	6	9	15	17	13	12	8
Chemical .....	1	1	1	1	2	1	4	3	2	1
Civil .....	1	1	0	0	0	2	2	0	2	1
Electrical .....	2	4	0	1	1	2	5	3	1	0
Mechanical .....	1	1	0	0	2	4	6	2	2	3
Other engineering .....	1	4	1	4	4	6	0	5	5	3
Sciences, total .....	50	58	41	58	59	81	62	83	104	80
Physical sciences, total .....	10	12	5	6	7	6	10	10	10	9
Astronomy .....	0	0	1	0	0	0	1	1	2	1
Chemistry .....	9	6	2	4	5	4	6	7	5	7
Physics .....	1	6	2	2	2	2	2	2	3	1
Other physical sciences .....	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences .....	3	1	4	1	0	2	2	3	6	5
Mathematics .....	0	2	1	2	2	1	1	3	1	2
Computer sciences .....	1	2	1	1	0	4	1	3	1	1
Biological sciences .....	10	13	7	16	15	20	7	12	20	17
Agricultural sciences .....	4	0	1	1	2	6	5	9	2	4
Psychology .....	13	15	15	12	14	18	18	31	35	22
Social sciences .....	9	13	7	19	19	24	18	12	29	20
Non-S&E, total .....	74	80	77	79	80	91	87	93	101	81
Health .....	5	5	6	6	9	4	6	4	6	4
Humanities <sup>1</sup> .....	10	18	10	20	18	18	19	21	21	20
Education .....	55	50	51	37	41	60	51	50	59	51
Professional/other .....	4	7	10	16	12	9	11	18	15	6
Grand total, all fields .....	130	149	120	143	148	187	166	189	217	169
U.S. citizens, Asian/Pacific Islander										
Science and engineering, total .....	599	651	712	736	894	836	1,010	878	1,003	1,021
Engineering, total .....	187	214	217	202	255	272	290	245	266	247
Chemical .....	27	25	26	27	27	27	17	36	32	45
Civil .....	11	12	10	7	15	17	13	16	20	20
Electrical .....	67	95	86	97	92	109	128	87	93	79
Mechanical .....	26	35	34	28	38	40	50	36	43	39
Other engineering .....	56	47	61	43	83	79	82	70	78	64
Sciences, total .....	412	437	495	534	639	564	720	633	737	774
Physical sciences, total .....	86	108	121	122	148	107	153	119	128	103
Astronomy .....	0	2	3	4	4	5	6	6	2	8
Chemistry .....	63	65	76	70	91	55	83	71	92	48
Physics .....	23	41	42	47	53	47	64	42	34	46
Other physical sciences .....	0	0	0	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	7	14	6	7	8	8	18	7	15	11
Mathematics .....	23	21	28	18	25	23	33	25	31	44
Computer sciences .....	32	37	27	33	42	37	43	40	42	42
Biological sciences .....	160	134	190	194	228	238	258	251	296	330
Agricultural sciences .....	9	13	9	14	10	13	16	6	20	14
Psychology .....	46	47	52	81	84	77	102	93	107	124
Social sciences .....	49	63	62	65	94	61	97	92	98	106
Non-S&E, total .....	190	197	179	214	247	254	298	292	319	386
Health .....	23	32	17	36	22	37	42	33	43	55
Humanities <sup>1</sup> .....	43	46	53	59	86	82	105	103	116	133
Education .....	85	80	85	81	84	92	101	101	102	127
Professional/other .....	39	39	24	38	55	43	50	55	58	71
Grand total, all fields .....	789	848	891	950	1,141	1,090	1,308	1,170	1,322	1,407

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, black										
Science and engineering, total .....	368	323	376	391	471	491	538	576	639	664
Engineering, total .....	43	32	41	44	54	59	83	76	84	76
Chemical .....	4	8	4	6	2	10	12	3	9	9
Civil .....	8	0	3	8	7	6	9	8	5	5
Electrical .....	16	12	13	14	20	17	27	22	25	19
Mechanical .....	3	3	2	4	8	9	10	13	10	17
Other engineering .....	12	9	19	12	17	17	25	30	35	26
Sciences, total .....	325	291	335	347	417	432	455	500	555	588
Physical sciences, total .....	25	21	29	33	37	46	46	51	54	52
Astronomy .....	0	1	2	0	1	0	2	1	2	1
Chemistry .....	19	13	19	23	27	34	31	40	46	36
Physics .....	6	6	7	9	9	12	13	10	6	15
Other physical sciences .....	0	1	1	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	2	5	2	3	2	3	4	8	11	7
Mathematics .....	9	4	5	9	4	8	6	12	10	14
Computer sciences .....	5	4	5	7	9	12	4	12	16	13
Biological sciences .....	51	47	64	67	91	82	100	100	109	115
Agricultural sciences .....	6	6	5	10	9	15	15	8	16	8
Psychology .....	126	101	117	112	145	146	146	150	169	188
Social sciences .....	101	103	108	106	120	120	134	159	170	191
Non-S&E, total .....	642	648	735	710	836	822	811	906	955	992
Health .....	35	35	52	41	55	42	51	60	50	67
Humanities <sup>1</sup> .....	84	84	82	94	96	107	126	132	153	148
Education .....	437	467	516	486	583	581	532	624	623	680
Professional/other .....	86	62	85	89	102	92	102	90	129	97
Grand total, all fields .....	1,010	971	1,111	1,101	1,307	1,313	1,349	1,482	1,594	1,656
U.S. citizens, Hispanic										
Science and engineering, total .....	411	433	444	463	478	526	571	683	635	630
Engineering, total .....	49	57	56	49	60	85	81	100	71	68
Chemical .....	10	10	10	5	11	14	5	10	5	13
Civil .....	5	6	7	7	7	2	10	15	11	7
Electrical .....	12	14	16	16	14	27	22	27	28	19
Mechanical .....	8	10	3	7	5	10	14	19	8	10
Other engineering .....	14	17	20	14	23	32	30	29	19	19
Sciences, total .....	362	376	388	414	418	441	490	583	564	562
Physical sciences, total .....	54	58	65	75	61	50	58	49	55	71
Astronomy .....	1	4	1	2	3	1	3	2	0	1
Chemistry .....	39	34	43	49	38	31	36	34	41	48
Physics .....	14	20	21	24	20	18	19	13	14	21
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	12	13	8	7	7	13	16	15	19	18
Mathematics .....	6	10	9	12	12	8	17	25	12	13
Computer sciences .....	11	7	5	5	6	12	15	13	12	11
Biological sciences .....	79	90	93	111	102	106	131	150	153	154
Agricultural sciences .....	7	9	14	16	10	8	15	25	10	17
Psychology .....	113	122	120	128	137	167	160	197	198	187
Social sciences .....	80	67	74	60	83	77	78	109	105	91
Non-S&E, total .....	321	345	389	421	434	421	486	520	516	527
Health .....	12	12	19	20	29	31	29	37	39	33
Humanities <sup>1</sup> .....	105	98	121	129	123	138	172	155	157	176
Education .....	175	200	213	226	235	203	245	284	271	271
Professional/other .....	29	35	36	46	47	49	40	44	49	47
Grand total, all fields .....	732	778	833	884	912	947	1,057	1,203	1,151	1,157

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, Puerto Rican										
Science and engineering, total .....	99	120	112	131	137	140	173	173	183	168
Engineering, total .....	9	13	10	10	13	22	23	17	23	20
Chemical .....	2	3	2	2	4	4	1	3	2	5
Civil .....	1	1	1	1	1	1	5	1	2	2
Electrical .....	0	3	5	3	3	4	4	3	11	6
Mechanical .....	2	1	1	1	1	3	6	5	2	2
Other engineering .....	4	5	1	3	4	10	7	5	6	5
Sciences, total .....	90	107	102	121	124	118	150	156	160	148
Physical sciences, total .....	17	20	17	26	21	12	20	11	22	19
Astronomy .....	0	1	0	0	1	0	0	1	0	0
Chemistry .....	14	14	14	19	17	9	13	9	18	18
Physics .....	3	5	3	7	3	3	7	1	4	1
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	3	1	0	2	3	6	5	5	5
Mathematics .....	0	2	1	1	1	3	4	7	2	2
Computer sciences .....	3	1	1	4	0	5	6	2	6	4
Biological sciences .....	23	27	27	28	30	30	37	43	47	33
Agricultural sciences .....	0	3	10	5	3	4	5	3	1	6
Psychology .....	20	35	24	43	44	48	56	71	56	60
Social sciences .....	27	16	21	14	23	13	16	14	21	19
Non-S&E, total .....	92	109	120	126	132	109	141	135	150	139
Health .....	3	4	3	6	12	7	10	7	11	9
Humanities <sup>1</sup> .....	30	22	36	38	30	38	49	37	31	44
Education .....	52	76	70	68	69	51	71	77	89	71
Professional/other .....	7	7	11	14	21	13	11	14	19	15
Grand total, all fields .....	191	229	232	257	269	249	314	308	333	307
U.S. citizens, Mexican American										
Science and engineering, total .....	117	110	103	134	136	137	153	213	154	202
Engineering, total .....	14	10	10	14	14	24	18	28	11	25
Chemical .....	4	1	1	1	3	3	2	1	0	4
Civil .....	2	2	0	1	3	0	2	5	3	3
Electrical .....	3	3	2	4	3	9	5	6	3	4
Mechanical .....	3	2	0	2	1	3	3	3	1	6
Other engineering .....	2	2	7	6	4	9	6	13	4	8
Sciences, total .....	103	100	93	120	122	113	135	185	143	177
Physical sciences, total .....	15	9	9	20	13	19	14	21	15	22
Astronomy .....	0	0	0	1	1	1	0	1	0	0
Chemistry .....	12	6	6	16	8	13	9	15	9	17
Physics .....	3	3	3	3	4	5	5	5	6	5
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	4	6	1	4	3	5	3	5	5	5
Mathematics .....	3	3	2	4	5	1	3	6	7	8
Computer sciences .....	0	2	0	0	3	1	2	3	0	3
Biological sciences .....	23	21	22	29	24	28	40	49	39	44
Agricultural sciences .....	1	4	2	5	3	1	2	9	3	5
Psychology .....	34	36	40	38	47	38	49	51	40	59
Social sciences .....	23	19	17	20	24	20	22	41	34	31
Non-S&E, total .....	99	97	127	156	137	140	143	194	179	194
Health .....	3	5	7	3	8	6	7	15	14	11
Humanities <sup>1</sup> .....	23	22	34	39	33	39	37	53	46	56
Education .....	64	58	73	100	91	78	89	115	101	114
Professional/other .....	9	12	13	14	5	17	10	11	18	13
Grand total, all fields .....	216	207	230	290	273	277	296	407	333	396

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, other Hispanic										
Science and engineering, total .....	195	203	229	198	205	249	245	297	298	260
Engineering, total .....	26	34	36	25	33	39	40	55	37	23
Chemical .....	4	6	7	2	4	7	2	6	3	4
Civil .....	2	3	6	5	3	1	3	9	6	2
Electrical .....	9	8	9	9	8	14	13	18	14	9
Mechanical .....	3	7	2	4	3	4	5	11	5	2
Other engineering .....	8	10	12	5	15	13	17	11	9	6
Sciences, total .....	169	169	193	173	172	210	205	242	261	237
Physical sciences, total .....	22	29	39	29	27	19	24	17	18	30
Astronomy .....	1	3	1	1	1	0	3	0	0	1
Chemistry .....	13	14	23	14	13	9	14	10	14	13
Physics .....	8	12	15	14	13	10	7	7	4	15
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	8	4	6	3	2	5	7	5	9	8
Mathematics .....	3	5	6	7	6	4	10	12	3	3
Computer sciences .....	8	4	4	1	3	6	7	8	6	4
Biological sciences .....	33	42	44	54	48	48	54	58	67	77
Agricultural sciences .....	6	2	2	6	4	3	8	13	6	6
Psychology .....	59	51	56	47	46	81	55	75	102	68
Social sciences .....	30	32	36	26	36	44	40	54	50	41
Non-S&E, total .....	130	139	142	139	165	172	202	191	187	194
Health .....	6	3	9	11	9	18	12	15	14	13
Humanities <sup>1</sup> .....	52	54	51	52	60	61	86	65	80	76
Education .....	59	66	70	58	75	74	85	92	81	86
Professional/other .....	13	16	12	18	21	19	19	19	12	19
Grand total, all fields .....	325	342	371	337	370	421	447	488	485	454
U.S. citizens, white										
Science and engineering, total .....	12,840	12,852	13,211	13,357	13,379	13,460	13,293	13,453	13,135	12,894
Engineering, total .....	1,707	1,750	1,892	1,886	1,959	2,125	2,150	2,037	1,982	1,754
Chemical .....	300	267	282	246	243	262	270	263	279	266
Civil .....	143	142	147	181	175	184	206	196	219	180
Electrical .....	430	457	507	503	540	541	528	485	471	396
Mechanical .....	244	300	303	316	320	369	360	348	321	260
Other engineering .....	590	584	653	640	681	769	786	745	692	652
Sciences, total .....	11,133	11,102	11,319	11,471	11,420	11,335	11,143	11,416	11,153	11,140
Physical sciences, total .....	1,897	1,918	1,848	1,944	1,848	1,824	1,793	1,832	1,744	1,607
Astronomy .....	81	91	97	94	109	127	129	113	103	112
Chemistry .....	1,201	1,193	1,119	1,139	1,066	1,028	1,040	1,093	1,052	950
Physics .....	602	616	623	698	660	660	610	611	579	528
Other physical sciences .....	13	18	9	13	13	9	14	15	10	17
Earth, atmospheric, & ocean sciences .....	546	469	440	486	452	430	475	451	409	418
Mathematics .....	403	407	445	455	507	441	449	491	473	433
Computer sciences .....	330	363	379	375	418	342	341	382	329	309
Biological sciences .....	2,965	2,998	3,056	3,005	3,023	3,055	3,070	3,139	3,016	3,193
Agricultural sciences .....	527	475	426	471	456	424	397	403	385	394
Psychology .....	2,616	2,580	2,751	2,694	2,679	2,701	2,481	2,598	2,634	2,564
Social sciences .....	1,849	1,892	1,974	2,041	2,037	2,118	2,137	2,120	2,163	2,222
Non-S&E, total .....	9,586	10,060	10,050	10,459	10,546	10,405	9,880	10,015	9,771	10,017
Health .....	691	714	782	846	809	806	812	907	811	934
Humanities <sup>1</sup> .....	2,685	2,927	2,969	3,150	3,374	3,333	3,368	3,461	3,471	3,575
Education .....	4,820	5,007	4,897	4,989	4,801	4,882	4,407	4,357	4,315	4,312
Professional/other .....	1,390	1,412	1,402	1,474	1,562	1,384	1,293	1,290	1,174	1,196
Grand total, all fields .....	22,426	22,912	23,261	23,816	23,925	23,865	23,173	23,468	22,906	22,911

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, men										
Science and engineering, total .....	9,391	9,397	9,429	9,463	9,599	9,574	9,898	9,742	9,391	9,048
Engineering, total .....	1,807	1,826	1,932	1,872	2,012	2,177	2,321	2,191	2,047	1,790
Chemical .....	297	250	265	236	221	235	260	263	268	247
Civil .....	152	144	138	155	170	175	204	196	206	177
Electrical .....	510	542	573	570	604	624	677	572	575	460
Mechanical .....	263	329	314	327	355	391	409	393	344	292
Other engineering .....	585	561	642	584	662	752	771	767	654	614
Sciences, total .....	7,584	7,571	7,497	7,591	7,587	7,397	7,577	7,551	7,344	7,258
Physical sciences, total .....	1,708	1,710	1,647	1,745	1,618	1,609	1,659	1,628	1,558	1,402
Astronomy .....	77	87	86	83	99	106	126	109	87	95
Chemistry .....	1,015	971	920	946	829	836	883	894	892	741
Physics .....	605	636	633	703	677	660	639	616	574	553
Other physical sciences .....	11	16	8	13	13	7	11	9	5	13
Earth, atmospheric, & ocean sciences .....	444	368	351	382	366	348	391	352	337	320
Mathematics .....	370	357	372	382	422	385	387	405	372	369
Computer sciences .....	305	353	343	349	368	345	348	371	322	314
Biological sciences .....	2,024	1,999	2,000	1,930	2,007	1,962	2,033	2,074	2,005	2,092
Agricultural sciences .....	436	377	333	387	380	328	334	310	296	300
Psychology .....	1,106	1,176	1,202	1,143	1,093	1,019	996	1,033	1,033	1,016
Social sciences .....	1,191	1,231	1,249	1,273	1,333	1,401	1,429	1,378	1,421	1,445
Non-S&E, total .....	4,997	5,122	5,088	5,272	5,367	5,133	5,179	5,141	4,981	5,062
Health .....	221	203	226	283	263	248	255	273	280	309
Humanities <sup>1</sup> .....	1,606	1,728	1,699	1,837	1,937	1,854	2,070	2,072	2,052	2,111
Education .....	2,255	2,263	2,282	2,200	2,149	2,149	1,984	1,984	1,882	1,876
Professional/other .....	915	928	881	952	1,018	882	870	812	767	766
Grand total, all fields .....	14,388	14,519	14,517	14,735	14,966	14,707	15,077	14,883	14,372	14,110
U.S. citizens, men, American Indian/Alaskan Native										
Science and engineering, total .....	37	42	25	40	42	62	45	54	60	43
Engineering, total .....	4	8	2	4	9	13	14	9	10	4
Chemical .....	0	1	1	1	2	1	3	0	1	0
Civil .....	1	0	0	0	0	1	1	0	1	0
Electrical .....	1	3	0	1	1	1	5	3	1	0
Mechanical .....	1	1	0	0	2	4	5	2	2	2
Other engineering .....	1	3	1	2	4	6	0	4	5	2
Sciences, total .....	33	34	23	36	33	49	31	45	50	39
Physical sciences, total .....	8	10	3	5	5	5	10	9	7	7
Astronomy .....	0	0	1	0	0	0	1	1	1	0
Chemistry .....	7	4	1	4	3	3	6	6	3	6
Physics .....	1	6	1	1	2	2	2	2	3	1
Other physical sciences .....	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences .....	2	1	4	1	0	2	1	2	3	4
Mathematics .....	0	1	1	2	1	1	1	1	1	1
Computer sciences .....	1	2	0	0	0	2	0	3	0	1
Biological sciences .....	6	8	5	11	10	11	4	6	10	10
Agricultural sciences .....	4	0	1	1	2	2	5	7	1	3
Psychology .....	5	6	6	5	6	9	6	13	12	3
Social sciences .....	7	6	3	11	9	17	4	4	16	10
Non-S&E, total .....	37	40	35	31	38	41	33	50	37	33
Health .....	3	3	0	1	2	1	2	1	0	1
Humanities <sup>1</sup> .....	3	12	7	12	10	10	8	14	11	11
Education .....	29	20	21	10	17	22	18	26	19	17
Professional/other .....	2	5	7	8	9	8	5	9	7	4
Grand total, all fields .....	74	82	60	71	80	103	78	104	97	76

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, men, Asian/Pacific Islander										
Science and engineering, total .....	407	450	479	492	571	512	638	527	636	615
Engineering, total .....	160	181	193	171	203	221	244	193	224	189
Chemical .....	20	18	22	20	16	17	14	27	23	30
Civil .....	10	11	10	7	13	11	10	13	19	14
Electrical .....	64	83	79	86	80	95	112	69	81	64
Mechanical .....	23	33	33	23	34	36	42	29	37	30
Other engineering .....	43	36	49	35	60	62	66	55	64	51
Sciences, total .....	247	269	286	321	368	291	394	334	412	426
Physical sciences, total .....	66	72	79	88	99	74	108	85	85	65
Astronomy .....	0	1	2	4	3	3	6	5	2	6
Chemistry .....	48	36	39	43	52	32	52	49	55	21
Physics .....	18	35	38	40	44	39	50	31	28	38
Other physical sciences .....	0	0	0	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	4	11	4	6	7	5	13	4	11	6
Mathematics .....	18	17	18	14	18	15	27	12	23	34
Computer sciences .....	25	34	23	29	34	28	32	30	33	34
Biological sciences .....	91	71	102	114	126	109	132	132	168	178
Agricultural sciences .....	6	8	5	12	5	6	11	5	10	11
Psychology .....	13	17	20	20	30	20	22	23	31	40
Social sciences .....	24	39	35	38	49	34	49	43	51	58
Non-S&E, total .....	76	81	74	99	96	103	110	121	136	146
Health .....	10	9	7	15	7	16	15	14	15	18
Humanities <sup>1</sup> .....	17	22	17	31	28	29	42	39	44	48
Education .....	26	22	34	28	27	31	25	37	40	42
Professional/other .....	23	28	16	25	34	27	28	31	37	38
Grand total, all fields .....	483	531	553	591	667	615	748	648	772	761
U.S. citizens, men, black										
Science and engineering, total .....	190	162	180	192	219	253	264	241	296	275
Engineering, total .....	35	26	30	31	41	40	61	55	61	51
Chemical .....	3	7	1	2	1	5	6	2	5	3
Civil .....	6	0	1	6	4	5	9	6	3	4
Electrical .....	14	10	11	11	16	12	24	18	20	17
Mechanical .....	2	3	2	3	8	6	9	13	9	12
Other engineering .....	10	6	15	9	12	12	13	16	24	15
Sciences, total .....	155	136	150	161	178	213	203	186	235	224
Physical sciences, total .....	21	16	20	21	20	34	36	25	30	34
Astronomy .....	0	0	2	0	1	0	1	1	0	0
Chemistry .....	15	9	11	15	11	24	23	17	27	20
Physics .....	6	6	7	5	8	10	12	7	3	14
Other physical sciences .....	0	1	0	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	4	2	2	2	1	3	5	6	3
Mathematics .....	5	4	4	6	3	6	4	5	4	7
Computer sciences .....	1	3	2	5	5	9	3	4	8	8
Biological sciences .....	25	25	34	24	52	46	43	34	47	43
Agricultural sciences .....	5	5	3	7	4	15	10	7	10	3
Psychology .....	42	25	43	40	37	39	39	38	39	42
Social sciences .....	55	54	42	56	55	63	65	68	91	84
Non-S&E, total .....	231	234	261	219	271	281	269	285	306	293
Health .....	13	11	15	11	14	10	12	11	8	11
Humanities <sup>1</sup> .....	37	42	44	42	42	47	55	63	61	62
Education .....	149	148	169	131	177	185	157	175	177	177
Professional/other .....	32	33	33	35	38	39	45	36	60	43
Grand total, all fields .....	421	396	441	411	490	534	533	526	602	568

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, men, Hispanic										
Science and engineering, total .....	242	263	256	262	279	290	337	381	312	331
Engineering, total .....	39	46	45	44	50	71	60	87	49	58
Chemical .....	6	8	7	5	9	9	3	10	2	10
Civil .....	3	5	5	5	6	2	9	12	5	6
Electrical .....	12	12	13	16	13	23	16	25	24	19
Mechanical .....	6	8	3	6	5	10	11	18	7	9
Other engineering .....	12	13	17	12	17	27	21	22	11	14
Sciences, total .....	203	217	211	218	229	219	277	294	263	273
Physical sciences, total .....	44	43	49	58	42	41	46	39	34	49
Astronomy .....	1	3	1	2	1	1	2	2	0	1
Chemistry .....	31	23	29	36	24	25	26	25	21	28
Physics .....	12	17	19	20	17	15	18	12	13	19
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	11	9	6	5	4	9	11	10	15	15
Mathematics .....	3	7	8	9	9	8	12	18	9	7
Computer sciences .....	10	6	4	5	2	7	13	12	9	9
Biological sciences .....	44	55	47	61	67	55	75	79	85	73
Agricultural sciences .....	6	7	9	9	9	6	12	16	6	10
Psychology .....	47	52	42	42	43	51	59	54	52	54
Social sciences .....	38	38	46	29	53	42	49	66	53	56
Non-S&E, total .....	129	147	167	176	179	183	205	230	187	209
Health .....	4	4	4	3	15	11	7	12	11	10
Humanities <sup>1</sup> .....	49	51	55	67	60	65	90	83	74	82
Education .....	63	74	88	76	82	83	85	110	84	97
Professional/other .....	13	18	20	30	22	24	23	25	18	20
Grand total, all fields .....	371	410	423	438	458	473	542	611	499	540
U.S. citizens, men, Puerto Rican										
Science and engineering, total .....	52	71	70	72	74	72	100	69	88	74
Engineering, total .....	7	10	8	10	11	17	19	16	15	16
Chemical .....	1	3	2	2	3	2	1	3	1	3
Civil .....	1	1	0	1	1	1	5	1	1	2
Electrical .....	0	2	4	3	3	4	3	3	9	6
Mechanical .....	2	0	1	1	1	3	6	5	2	2
Other engineering .....	3	4	1	3	3	7	4	4	2	3
Sciences, total .....	45	61	62	62	63	55	81	53	73	58
Physical sciences, total .....	11	14	12	19	12	8	18	6	13	9
Astronomy .....	0	1	0	0	0	0	0	1	0	0
Chemistry .....	9	9	9	13	9	6	11	4	9	8
Physics .....	2	4	3	6	3	2	7	1	4	1
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	3	1	0	1	3	4	2	4	5
Mathematics .....	0	1	1	1	0	3	3	4	2	1
Computer sciences .....	3	1	0	4	0	4	6	1	5	4
Biological sciences .....	12	16	16	14	21	12	21	20	24	11
Agricultural sciences .....	0	3	7	2	3	3	4	2	0	3
Psychology .....	6	16	13	13	13	15	20	12	16	12
Social sciences .....	13	7	12	9	13	7	5	6	9	13
Non-S&E, total .....	32	39	51	51	46	40	55	59	52	50
Health .....	2	3	0	2	7	2	3	3	5	3
Humanities <sup>1</sup> .....	11	10	18	16	14	16	26	20	14	19
Education .....	16	23	25	23	19	17	21	28	23	23
Professional/other .....	3	3	8	10	6	5	5	8	10	5
Grand total, all fields .....	84	110	121	123	120	112	155	128	140	124

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, men, Mexican American										
Science and engineering, total .....	76	72	61	80	79	85	87	130	82	118
Engineering, total .....	12	10	9	12	13	21	11	25	7	22
Chemical .....	3	1	1	1	2	2	1	1	0	3
Civil .....	2	2	0	1	3	0	1	4	1	3
Electrical .....	3	3	2	4	3	8	2	6	2	4
Mechanical .....	2	2	0	2	1	3	3	3	1	6
Other engineering .....	2	2	6	4	4	8	4	11	3	6
Sciences, total .....	64	62	52	68	66	64	76	105	75	96
Physical sciences, total .....	12	7	7	17	9	16	12	18	10	19
Astronomy .....	0	0	0	1	0	1	0	1	0	0
Chemistry .....	10	4	5	14	6	11	7	12	5	14
Physics .....	2	3	2	2	3	4	5	5	5	5
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	4	4	1	4	2	3	2	4	4	4
Mathematics .....	1	3	2	3	3	1	2	3	5	4
Computer sciences .....	0	2	0	0	1	1	2	3	0	2
Biological sciences .....	16	10	12	16	15	16	20	29	23	25
Agricultural sciences .....	1	3	1	4	2	1	2	6	3	3
Psychology .....	19	19	16	17	14	18	20	18	14	21
Social sciences .....	11	14	13	7	20	8	16	24	16	18
Non-S&E, total .....	44	45	56	70	68	70	68	80	68	76
Health .....	0	0	2	0	3	2	0	1	3	2
Humanities <sup>1</sup> .....	11	13	18	22	21	21	21	30	26	21
Education .....	27	26	29	37	40	37	41	44	34	46
Professional/other .....	6	6	7	11	4	10	6	5	5	7
Grand total, all fields .....	120	117	117	150	147	155	155	210	150	194
U.S. citizens, men, other Hispanic										
Science and engineering, total .....	114	120	125	110	126	133	150	182	142	139
Engineering, total .....	20	26	28	22	26	33	30	46	27	20
Chemical .....	2	4	4	2	4	5	1	6	1	4
Civil .....	0	2	5	3	2	1	3	7	3	1
Electrical .....	9	7	7	9	7	11	11	16	13	9
Mechanical .....	2	6	2	3	3	4	2	10	4	1
Other engineering .....	7	7	10	5	10	12	13	7	6	5
Sciences, total .....	94	94	97	88	100	100	120	136	115	119
Physical sciences, total .....	21	22	30	22	21	17	16	15	11	21
Astronomy .....	1	2	1	1	1	0	2	0	0	1
Chemistry .....	12	10	15	9	9	8	8	9	7	6
Physics .....	8	10	14	12	11	9	6	6	4	13
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	7	2	4	1	1	3	5	4	7	6
Mathematics .....	2	3	5	5	6	4	7	11	2	2
Computer sciences .....	7	3	4	1	1	2	5	8	4	3
Biological sciences .....	16	29	19	31	31	27	34	30	38	37
Agricultural sciences .....	5	1	1	3	4	2	6	8	3	4
Psychology .....	22	17	13	12	16	18	19	24	22	21
Social sciences .....	14	17	21	13	20	27	28	36	28	25
Non-S&E, total .....	53	63	60	55	65	73	82	91	67	83
Health .....	2	1	2	1	5	7	4	8	3	5
Humanities <sup>1</sup> .....	27	28	19	29	25	28	43	33	34	42
Education .....	20	25	34	16	23	29	23	38	27	28
Professional/other .....	4	9	5	9	12	9	12	12	3	8
Grand total, all fields .....	167	183	185	165	191	206	232	273	209	222

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, men, white										
Science and engineering, total .....	8,238	8,294	8,370	8,357	8,332	8,295	8,212	8,179	7,889	7,552
Engineering, total .....	1,486	1,523	1,644	1,595	1,662	1,801	1,838	1,759	1,650	1,440
Chemical .....	262	211	233	201	187	199	222	213	233	201
Civil .....	128	125	122	137	145	155	168	155	175	148
Electrical .....	397	419	462	453	480	482	482	443	432	347
Mechanical .....	217	281	272	291	296	332	328	316	277	229
Other engineering .....	482	487	555	513	554	633	638	632	533	515
Sciences, total .....	6,752	6,771	6,726	6,762	6,670	6,494	6,374	6,420	6,239	6,112
Physical sciences, total .....	1,525	1,536	1,473	1,557	1,422	1,418	1,402	1,402	1,370	1,211
Astronomy .....	75	81	78	75	91	98	107	91	83	85
Chemistry .....	896	886	828	843	733	738	748	765	771	642
Physics .....	544	555	560	628	587	575	537	538	511	472
Other physical sciences .....	10	14	7	11	11	7	10	8	5	12
Earth, atmospheric, & ocean sciences .....	409	339	332	366	346	326	349	317	293	282
Mathematics .....	324	319	334	344	388	348	325	353	326	314
Computer sciences .....	260	299	307	305	319	286	278	305	262	252
Biological sciences .....	1,825	1,802	1,782	1,700	1,724	1,710	1,717	1,757	1,660	1,730
Agricultural sciences .....	406	349	314	353	357	293	282	268	265	265
Psychology .....	980	1,059	1,081	1,022	968	894	823	870	892	859
Social sciences .....	1,023	1,068	1,103	1,115	1,146	1,219	1,198	1,148	1,171	1,199
Non-S&E, total .....	4,447	4,549	4,498	4,699	4,722	4,456	4,318	4,258	4,229	4,269
Health .....	186	171	198	250	222	207	214	224	243	262
Humanities <sup>1</sup> .....	1,466	1,574	1,546	1,662	1,761	1,675	1,778	1,784	1,824	1,846
Education .....	1,968	1,977	1,958	1,937	1,833	1,805	1,597	1,572	1,534	1,513
Professional/other .....	827	827	796	850	906	769	729	678	628	648
Grand total, all fields .....	12,685	12,843	12,868	13,056	13,054	12,751	12,530	12,437	12,118	11,821
U.S. citizens, women										
Science and engineering, total .....	5,238	5,162	5,503	5,703	5,888	6,055	6,221	6,487	6,409	6,607
Engineering, total .....	279	283	296	343	374	417	415	374	426	416
Chemical .....	51	68	59	57	70	83	61	64	65	91
Civil .....	21	20	30	48	36	37	45	50	54	42
Electrical .....	44	55	57	64	79	83	74	66	62	67
Mechanical .....	34	23	33	32	28	45	46	41	52	47
Other engineering .....	129	117	117	142	161	169	189	153	193	169
Sciences, total .....	4,959	4,879	5,207	5,360	5,514	5,638	5,806	6,113	5,983	6,191
Physical sciences, total .....	412	447	446	453	519	467	472	511	471	483
Astronomy .....	7	13	20	20	21	31	25	23	23	33
Chemistry .....	336	357	352	345	409	333	351	392	362	375
Physics .....	66	73	71	86	87	101	92	89	80	69
Other physical sciences .....	3	4	3	2	2	2	4	7	6	6
Earth, atmospheric, & ocean sciences .....	148	138	112	125	112	114	146	148	135	155
Mathematics .....	93	97	124	122	132	105	143	171	165	144
Computer sciences .....	83	69	82	77	116	77	82	103	90	73
Biological sciences .....	1,290	1,329	1,449	1,492	1,487	1,585	1,637	1,679	1,644	1,803
Agricultural sciences .....	128	134	124	132	112	145	134	154	144	146
Psychology .....	1,847	1,724	1,869	1,909	1,990	2,105	2,050	2,148	2,135	2,130
Social sciences .....	958	941	1,001	1,050	1,046	1,040	1,142	1,199	1,199	1,257
Non-S&E, total .....	5,947	6,329	6,428	6,709	6,886	6,988	6,853	7,067	6,855	7,171
Health .....	558	606	653	678	675	685	703	798	682	804
Humanities <sup>1</sup> .....	1,369	1,483	1,574	1,649	1,810	1,872	1,875	1,948	1,939	2,039
Education .....	3,359	3,589	3,509	3,664	3,628	3,717	3,596	3,585	3,557	3,656
Professional/other .....	661	651	692	718	773	714	679	736	677	672
Grand total, all fields .....	11,185	11,491	11,931	12,412	12,774	13,043	13,074	13,554	13,264	13,778

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, women, American Indian/Alaskan Native										
Science and engineering, total .....	19	27	18	24	26	34	34	42	56	45
Engineering, total .....	2	3	0	2	0	2	3	4	2	4
Chemical .....	1	0	0	0	0	0	1	3	1	1
Civil .....	0	1	0	0	0	1	1	0	1	1
Electrical .....	1	1	0	0	0	1	0	0	0	0
Mechanical .....	0	0	0	0	0	0	1	0	0	1
Other engineering .....	0	1	0	2	0	0	0	1	0	1
Sciences, total .....	17	24	18	22	26	32	31	38	54	41
Physical sciences, total .....	2	2	2	1	2	1	0	1	3	2
Astronomy .....	0	0	0	0	0	0	0	0	1	1
Chemistry .....	2	2	1	0	2	1	0	1	2	1
Physics .....	0	0	1	1	0	0	0	0	0	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	0	0	0	0	0	1	1	3	1
Mathematics .....	0	1	0	0	1	0	0	2	0	1
Computer sciences .....	0	0	1	1	0	2	1	0	1	0
Biological sciences .....	4	5	2	5	5	9	3	6	10	7
Agricultural sciences .....	0	0	0	0	0	4	0	2	1	1
Psychology .....	8	9	9	7	8	9	12	18	23	19
Social sciences .....	2	7	4	8	10	7	14	8	13	10
Non-S&E, total .....	37	40	42	48	42	50	54	43	64	48
Health .....	2	2	6	5	7	3	4	3	6	3
Humanities <sup>1</sup> .....	7	6	3	8	8	8	11	7	10	9
Education .....	26	30	30	27	24	38	33	24	40	34
Professional/other .....	2	2	3	8	3	1	6	9	8	2
Grand total, all fields .....	56	67	60	72	68	84	88	85	120	93
U.S. citizens, women, Asian/Pacific Islander										
Science and engineering, total .....	192	201	233	244	323	324	372	351	367	406
Engineering, total .....	27	33	24	31	52	51	46	52	42	58
Chemical .....	7	7	4	7	11	10	3	9	9	15
Civil .....	1	1	0	0	2	6	3	3	1	6
Electrical .....	3	12	7	11	12	14	16	18	12	15
Mechanical .....	3	2	1	5	4	4	8	7	6	9
Other engineering .....	13	11	12	8	23	17	16	15	14	13
Sciences, total .....	165	168	209	213	271	273	326	299	325	348
Physical sciences, total .....	20	36	42	34	49	33	45	34	43	38
Astronomy .....	0	1	1	0	1	2	0	1	0	2
Chemistry .....	15	29	37	27	39	23	31	22	37	27
Physics .....	5	6	4	7	9	8	14	11	6	8
Other physical sciences .....	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences .....	3	3	2	1	1	3	5	3	4	5
Mathematics .....	5	4	10	4	7	8	6	13	8	10
Computer sciences .....	7	3	4	4	8	9	11	10	9	8
Biological sciences .....	69	63	88	80	102	129	126	119	128	152
Agricultural sciences .....	3	5	4	2	5	7	5	1	10	3
Psychology .....	33	30	32	61	54	57	80	70	76	84
Social sciences .....	25	24	27	27	45	27	48	49	47	48
Non-S&E, total .....	114	116	105	115	151	151	188	171	183	240
Health .....	13	23	10	21	15	21	27	19	28	37
Humanities <sup>1</sup> .....	26	24	36	28	58	53	63	64	72	85
Education .....	59	58	51	53	57	61	76	64	62	85
Professional/other .....	16	11	8	13	21	16	22	24	21	33
Grand total, all fields .....	306	317	338	359	474	475	560	522	550	646

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, women, black										
Science and engineering, total .....	178	161	196	199	252	238	274	335	343	389
Engineering, total .....	8	6	11	13	13	19	22	21	23	25
Chemical .....	1	1	3	4	1	5	6	1	4	6
Civil .....	2	0	2	2	3	1	0	2	2	1
Electrical .....	2	2	2	3	4	5	3	4	5	2
Mechanical .....	1	0	0	1	0	3	1	0	1	5
Other engineering .....	2	3	4	3	5	5	12	14	11	11
Sciences, total .....	170	155	185	186	239	219	252	314	320	364
Physical sciences, total .....	4	5	9	12	17	12	10	26	24	18
Astronomy .....	0	1	0	0	0	0	1	0	2	1
Chemistry .....	4	4	8	8	16	10	8	23	19	16
Physics .....	0	0	0	4	1	2	1	3	3	1
Other physical sciences .....	0	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	1	0	1	0	2	1	3	5	4
Mathematics .....	4	0	1	3	1	2	2	7	6	7
Computer sciences .....	4	1	3	2	4	3	1	8	8	5
Biological sciences .....	26	22	30	43	39	36	57	66	62	72
Agricultural sciences .....	1	1	2	3	5	0	5	1	6	5
Psychology .....	84	76	74	72	108	107	107	112	130	146
Social sciences .....	46	49	66	50	65	57	69	91	79	107
Non-S&E, total .....	411	414	474	491	565	541	542	621	649	699
Health .....	22	24	37	30	41	32	39	49	42	56
Humanities <sup>1</sup> .....	47	42	38	52	54	60	71	69	92	86
Education .....	288	319	347	355	406	396	375	449	446	503
Professional/other .....	54	29	52	54	64	53	57	54	69	54
Grand total, all fields .....	589	575	670	690	817	779	816	956	992	1,088
U.S. citizens, women, Hispanic										
Science and engineering, total .....	169	170	188	201	199	236	234	302	323	299
Engineering, total .....	10	11	11	5	10	14	21	13	22	10
Chemical .....	4	2	3	0	2	5	2	0	3	3
Civil .....	2	1	2	2	1	0	1	3	6	1
Electrical .....	0	2	3	0	1	4	6	2	4	0
Mechanical .....	2	2	0	1	0	0	3	1	1	1
Other engineering .....	2	4	3	2	6	5	9	7	8	5
Sciences, total .....	159	159	177	196	189	222	213	289	301	289
Physical sciences, total .....	10	15	16	17	19	9	12	10	21	22
Astronomy .....	0	1	0	0	2	0	1	0	0	0
Chemistry .....	8	11	14	13	14	6	10	9	20	20
Physics .....	2	3	2	4	3	3	1	1	1	2
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	4	2	2	3	4	5	5	4	3
Mathematics .....	3	3	1	3	3	0	5	7	3	6
Computer sciences .....	1	1	1	0	4	5	2	1	3	2
Biological sciences .....	35	35	46	50	35	51	56	71	68	81
Agricultural sciences .....	1	2	5	7	1	2	3	9	4	7
Psychology .....	66	70	78	86	94	116	101	143	146	133
Social sciences .....	42	29	28	31	30	35	29	43	52	35
Non-S&E, total .....	192	198	222	245	255	238	281	290	329	318
Health .....	8	8	15	17	14	20	22	25	28	23
Humanities <sup>1</sup> .....	56	47	66	62	63	73	82	72	83	94
Education .....	112	126	125	150	153	120	160	174	187	174
Professional/other .....	16	17	16	16	25	25	17	19	31	27
Grand total, all fields .....	361	368	410	446	454	474	515	592	652	617

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, women, Puerto Rican										
Science and engineering, total .....	47	49	42	59	63	68	73	104	95	94
Engineering, total .....	2	3	2	0	2	5	4	1	8	4
Chemical .....	1	0	0	0	1	2	0	0	1	2
Civil .....	0	0	1	0	0	0	0	0	1	0
Electrical .....	0	1	1	0	0	0	1	0	2	0
Mechanical .....	0	1	0	0	0	0	0	0	0	0
Other engineering .....	1	1	0	0	1	3	3	1	4	2
Sciences, total .....	45	46	40	59	61	63	69	103	87	90
Physical sciences, total .....	6	6	5	7	9	4	2	5	9	10
Astronomy .....	0	0	0	0	1	0	0	0	0	0
Chemistry .....	5	5	5	6	8	3	2	5	9	10
Physics .....	1	1	0	1	0	1	0	0	0	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	0	0	0	1	0	2	3	1	0
Mathematics .....	0	1	0	0	1	0	1	3	0	1
Computer sciences .....	0	0	1	0	0	1	0	1	1	0
Biological sciences .....	11	11	11	14	9	18	16	23	23	22
Agricultural sciences .....	0	0	3	3	0	1	1	1	1	3
Psychology .....	14	19	11	30	31	33	36	59	40	48
Social sciences .....	14	9	9	5	10	6	11	8	12	6
Non-S&E, total .....	60	70	69	75	86	69	86	76	98	89
Health .....	1	1	3	4	5	5	7	4	6	6
Humanities <sup>1</sup> .....	19	12	18	22	16	22	23	17	17	25
Education .....	36	53	45	45	50	34	50	49	66	48
Professional/other .....	4	4	3	4	15	8	6	6	9	10
Grand total, all fields .....	107	119	111	134	149	137	159	180	193	183
U.S. citizens, women, Mexican American										
Science and engineering, total .....	41	38	42	54	57	52	66	83	72	84
Engineering, total .....	2	0	1	2	1	3	7	3	4	3
Chemical .....	1	0	0	0	1	1	1	0	0	1
Civil .....	0	0	0	0	0	0	1	1	2	0
Electrical .....	0	0	0	0	0	0	1	0	1	0
Mechanical .....	1	0	0	0	0	0	0	0	0	0
Other engineering .....	0	0	1	2	0	1	2	2	1	2
Sciences, total .....	39	38	41	52	56	49	59	80	68	81
Physical sciences, total .....	3	2	2	3	4	3	2	3	5	3
Astronomy .....	0	0	0	0	1	0	0	0	0	0
Chemistry .....	2	2	1	2	2	2	2	3	4	3
Physics .....	1	0	1	1	1	1	0	0	1	0
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	0	2	0	0	1	2	1	1	1	1
Mathematics .....	2	0	0	1	2	0	1	3	2	4
Computer sciences .....	0	0	0	0	2	0	0	0	0	1
Biological sciences .....	7	11	10	13	9	12	20	20	16	19
Agricultural sciences .....	0	1	1	1	1	0	0	3	0	2
Psychology .....	15	17	24	21	33	20	29	33	26	38
Social sciences .....	12	5	4	13	4	12	6	17	18	13
Non-S&E, total .....	55	52	71	86	69	70	75	114	111	118
Health .....	3	5	5	3	5	4	7	14	11	9
Humanities <sup>1</sup> .....	12	9	16	17	12	18	16	23	20	35
Education .....	37	32	44	63	51	41	48	71	67	68
Professional/other .....	3	6	6	3	1	7	4	6	13	6
Grand total, all fields .....	96	90	113	140	126	122	141	197	183	202

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens, women, other Hispanic										
Science and engineering, total .....	81	83	104	88	79	116	95	115	156	121
Engineering, total .....	6	8	8	3	7	6	10	9	10	3
Chemical .....	2	2	3	0	0	2	1	0	2	0
Civil .....	2	1	1	2	1	0	0	2	3	1
Electrical .....	0	1	2	0	1	3	2	2	1	0
Mechanical .....	1	1	0	1	0	0	3	1	1	1
Other engineering .....	1	3	2	0	5	1	4	4	3	1
Sciences, total .....	75	75	96	85	72	110	85	106	146	118
Physical sciences, total .....	1	7	9	7	6	2	8	2	7	9
Astronomy .....	0	1	0	0	0	0	1	0	0	0
Chemistry .....	1	4	8	5	4	1	6	1	7	7
Physics .....	0	2	1	2	2	1	1	1	0	2
Other physical sciences .....	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences .....	1	2	2	2	1	2	2	1	2	2
Mathematics .....	1	2	1	2	0	0	3	1	1	1
Computer sciences .....	1	1	0	0	2	4	2	0	2	1
Biological sciences .....	17	13	25	23	17	21	20	28	29	40
Agricultural sciences .....	1	1	1	3	0	1	2	5	3	2
Psychology .....	37	34	43	35	30	63	36	51	80	47
Social sciences .....	16	15	15	13	16	17	12	18	22	16
Non-S&E, total .....	77	76	82	84	100	99	120	100	120	111
Health .....	4	2	7	10	4	11	8	7	11	8
Humanities <sup>1</sup> .....	25	26	32	23	35	33	43	32	46	34
Education .....	39	41	36	42	52	45	62	54	54	58
Professional/other .....	9	7	7	9	9	10	7	7	9	11
Grand total, all fields .....	158	159	186	172	179	215	215	215	276	232
U.S. citizens, women, white										
Science and engineering, total .....	4,602	4,558	4,841	5,000	5,047	5,165	5,081	5,274	5,246	5,342
Engineering, total .....	221	227	248	291	297	324	312	278	332	314
Chemical .....	38	56	49	45	56	63	48	50	46	65
Civil .....	15	17	25	44	30	29	38	41	44	32
Electrical .....	33	38	45	50	60	59	46	42	39	49
Mechanical .....	27	19	31	25	24	37	32	32	44	31
Other engineering .....	108	97	98	127	127	136	148	113	159	137
Sciences, total .....	4,381	4,331	4,593	4,709	4,750	4,841	4,769	4,996	4,914	5,028
Physical sciences, total .....	372	382	375	387	426	406	391	430	374	396
Astronomy .....	6	10	19	19	18	29	22	22	20	27
Chemistry .....	305	307	291	296	333	290	292	328	281	308
Physics .....	58	61	63	70	73	85	73	73	68	56
Other physical sciences .....	3	4	2	2	2	2	4	7	5	5
Earth, atmospheric, & ocean sciences .....	137	130	108	120	106	104	126	134	116	136
Mathematics .....	79	88	111	111	119	93	124	138	147	119
Computer sciences .....	70	64	72	70	99	56	63	77	67	57
Biological sciences .....	1,140	1,196	1,274	1,305	1,299	1,345	1,353	1,382	1,356	1,463
Agricultural sciences .....	121	126	112	118	99	131	115	135	120	129
Psychology .....	1,636	1,521	1,670	1,672	1,711	1,807	1,658	1,728	1,742	1,705
Social sciences .....	826	824	871	926	891	899	939	972	992	1,023
Non-S&E, total .....	5,139	5,511	5,552	5,760	5,824	5,949	5,562	5,757	5,542	5,748
Health .....	505	543	584	596	587	599	598	683	568	672
Humanities <sup>1</sup> .....	1,219	1,353	1,423	1,488	1,613	1,658	1,590	1,677	1,647	1,729
Education .....	2,852	3,030	2,939	3,052	2,968	3,077	2,810	2,785	2,781	2,799
Professional/other .....	563	585	606	624	656	615	564	612	546	548
Grand total, all fields .....	9,741	10,069	10,393	10,760	10,871	11,114	10,643	11,031	10,788	11,090

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with permanent visas										
Science and engineering, total .....	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
Engineering, total .....	388	411	469	838	956	793	593	479	403	350
Chemical .....	51	60	53	87	90	73	88	46	38	42
Civil .....	40	51	59	89	103	93	78	51	51	41
Electrical .....	132	122	165	265	288	221	187	166	127	116
Mechanical .....	62	74	87	179	180	152	82	82	65	56
Other engineering .....	103	104	105	218	295	254	158	134	122	95
Sciences, total .....	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
Physical sciences, total .....	180	200	237	591	704	493	366	313	242	199
Astronomy .....	2	6	5	9	21	12	7	15	7	12
Chemistry .....	110	113	128	325	386	293	205	179	150	120
Physics .....	68	81	102	255	295	187	152	117	84	66
Other physical sciences .....	0	0	2	2	2	1	2	2	1	1
Earth, atmospheric, & ocean sciences .....	26	35	41	106	116	96	70	62	51	34
Mathematics .....	55	53	94	153	217	158	99	93	66	55
Computer sciences .....	63	67	84	117	132	92	91	84	71	71
Biological sciences .....	211	240	303	666	835	818	584	551	464	365
Agricultural sciences .....	56	62	49	97	106	103	83	79	51	55
Psychology .....	65	86	90	84	101	104	89	93	70	75
Social sciences .....	241	229	274	369	342	352	305	262	234	205
Non-S&E, total .....	572	597	618	726	809	758	650	681	654	540
Health .....	60	46	60	89	106	83	69	82	77	75
Humanities <sup>1</sup> .....	219	229	238	280	308	319	289	304	283	233
Education .....	174	165	177	199	218	196	165	171	178	124
Professional/other .....	119	157	143	158	177	160	127	124	116	108
Grand total, all fields .....	1,857	1,980	2,259	3,747	4,318	3,767	2,930	2,697	2,306	1,949
Non-U.S. citizens with permanent visas, men										
Science and engineering, total .....	926	968	1,120	2,230	2,485	2,101	1,508	1,340	1,051	902
Engineering, total .....	351	366	417	733	810	685	495	402	337	282
Chemical .....	42	46	48	66	72	58	72	34	28	34
Civil .....	36	48	57	82	87	83	65	43	44	35
Electrical .....	128	110	142	241	247	198	155	141	107	93
Mechanical .....	59	72	84	157	159	137	73	73	57	47
Other engineering .....	86	90	86	187	245	209	130	111	101	73
Sciences, total .....	575	602	703	1,497	1,675	1,416	1,013	938	714	620
Physical sciences, total .....	138	133	162	419	515	350	251	221	160	135
Astronomy .....	2	4	2	8	17	8	6	11	5	9
Chemistry .....	78	69	79	206	258	187	125	109	86	73
Physics .....	58	60	79	204	239	154	120	99	68	52
Other physical sciences .....	0	0	2	1	1	1	0	2	1	1
Earth, atmospheric, & ocean sciences .....	17	26	33	87	84	80	52	39	35	22
Mathematics .....	36	33	54	124	166	118	65	66	39	36
Computer sciences .....	52	53	57	100	105	78	73	64	57	58
Biological sciences .....	111	131	168	415	463	462	302	312	249	184
Agricultural sciences .....	47	46	39	69	83	73	62	50	35	36
Psychology .....	22	30	21	26	35	26	27	32	21	30
Social sciences .....	152	150	169	257	224	229	181	154	118	119
Non-S&E, total .....	298	325	351	407	424	384	327	338	327	237
Health .....	31	23	34	45	62	45	33	37	44	32
Humanities <sup>1</sup> .....	97	104	116	141	138	146	132	148	144	100
Education .....	92	84	96	107	94	89	75	72	67	43
Professional/other .....	78	114	105	114	130	104	87	81	72	62
Grand total, all fields .....	1,224	1,293	1,471	2,637	2,909	2,485	1,835	1,678	1,378	1,139

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with permanent visas, women										
Science and engineering, total .....	359	415	521	791	1,024	908	772	676	601	507
Engineering, total .....	37	45	52	105	146	108	98	77	66	68
Chemical .....	9	14	5	21	18	15	16	12	10	8
Civil .....	4	3	2	7	16	10	13	8	7	6
Electrical .....	4	12	23	24	41	23	32	25	20	23
Mechanical .....	3	2	3	22	21	15	9	9	8	9
Other engineering .....	17	14	19	31	50	45	28	23	21	22
Sciences, total .....	322	370	469	686	878	800	674	599	535	439
Physical sciences, total .....	42	67	75	172	189	143	115	92	82	64
Astronomy .....	0	2	3	1	4	4	1	4	2	3
Chemistry .....	32	44	49	119	128	106	80	70	64	47
Physics .....	10	21	23	51	56	33	32	18	16	14
Other physical sciences .....	0	0	0	1	1	0	2	0	0	0
Earth, atmospheric, & ocean sciences .....	9	9	8	19	32	16	18	23	16	12
Mathematics .....	19	20	40	29	51	40	34	27	27	19
Computer sciences .....	11	14	27	17	27	14	18	20	14	13
Biological sciences .....	100	109	135	251	372	356	282	239	215	181
Agricultural sciences .....	9	16	10	28	23	30	21	29	16	19
Psychology .....	43	56	69	58	66	78	62	61	49	45
Social sciences .....	89	79	105	112	118	123	124	108	116	86
Non-S&E, total .....	274	272	267	319	385	374	323	343	327	303
Health .....	29	23	26	44	44	38	36	45	33	43
Humanities <sup>1</sup> .....	122	125	122	139	170	173	157	156	139	133
Education .....	82	81	81	92	124	107	90	99	111	81
Professional/other .....	41	43	38	44	47	56	40	43	44	46
Grand total, all fields .....	633	687	788	1,110	1,409	1,282	1,095	1,019	928	810
Non-U.S. citizens with temporary visas										
Science and engineering, total .....	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
Engineering, total .....	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
Chemical .....	281	339	336	336	318	399	343	373	281	308
Civil .....	353	357	380	385	337	369	310	316	252	280
Electrical .....	690	725	703	735	712	749	711	709	636	777
Mechanical .....	493	538	554	459	437	431	448	454	354	431
Other engineering .....	816	784	811	738	720	772	739	730	667	648
Sciences, total .....	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
Physical sciences, total .....	1,257	1,346	1,263	1,107	930	1,140	1,083	1,202	1,127	1,156
Astronomy .....	37	28	34	32	28	42	37	52	37	43
Chemistry .....	689	729	675	597	493	613	598	658	623	648
Physics .....	525	581	550	471	399	482	446	487	462	457
Other physical sciences .....	6	8	4	7	10	3	2	5	5	8
Earth, atmospheric, & ocean sciences .....	185	236	235	197	173	205	229	216	242	202
Mathematics .....	506	511	517	448	382	442	441	447	444	442
Computer sciences .....	340	365	348	343	365	376	330	329	331	361
Biological sciences .....	1,059	1,159	1,246	1,058	968	1,240	1,320	1,333	1,286	1,390
Agricultural sciences .....	435	472	447	453	429	441	391	462	459	416
Psychology .....	133	156	148	151	164	181	137	168	153	164
Social sciences .....	1,093	1,104	1,125	1,111	1,058	1,061	1,017	1,035	1,004	1,073
Non-S&E, total .....	1,670	1,861	1,819	1,885	1,817	1,808	1,680	1,719	1,821	2,000
Health .....	171	226	214	230	246	267	273	287	286	306
Humanities <sup>1</sup> .....	444	495	466	529	548	522	529	533	536	626
Education .....	503	553	546	537	502	477	408	488	519	541
Professional/other .....	552	587	593	589	521	542	470	411	480	527
Grand total, all fields .....	9,311	9,953	9,932	9,406	8,810	9,614	9,179	9,493	9,057	9,648

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with temporary visas, men										
Science and engineering, total .....	6,412	6,741	6,658	6,200	5,748	6,310	5,978	6,020	5,589	5,784
Engineering, total .....	2,484	2,574	2,623	2,475	2,365	2,492	2,340	2,308	1,931	2,142
Chemical .....	259	308	309	301	297	354	300	313	237	260
Civil .....	337	330	358	360	314	338	289	277	226	243
Electrical .....	659	679	660	679	668	697	675	657	574	689
Mechanical .....	473	518	535	445	424	415	419	425	323	396
Other engineering .....	756	739	761	690	662	688	657	636	571	554
Sciences, total .....	3,928	4,167	4,035	3,725	3,383	3,818	3,638	3,712	3,658	3,642
Physical sciences, total .....	1,041	1,098	1,015	908	770	931	860	923	880	905
Astronomy .....	30	24	32	28	24	36	27	34	30	38
Chemistry .....	547	556	503	440	378	465	445	455	443	475
Physics .....	460	510	477	433	360	428	388	431	402	386
Other physical sciences .....	4	8	3	7	8	2	0	3	5	6
Earth, atmospheric, & ocean sciences .....	165	198	202	158	151	169	193	175	195	144
Mathematics .....	420	427	422	364	304	359	366	362	367	359
Computer sciences .....	317	329	322	302	322	335	292	306	283	312
Biological sciences .....	694	787	809	703	634	799	816	795	818	836
Agricultural sciences .....	366	391	357	366	340	340	298	355	343	312
Psychology .....	77	81	64	71	79	87	58	67	70	68
Social sciences .....	848	856	844	853	783	798	755	729	702	706
Non-S&E, total .....	1,105	1,222	1,205	1,129	1,110	1,090	998	1,005	1,045	1,056
Health .....	101	159	138	115	142	151	135	157	139	143
Humanities <sup>1</sup> .....	255	280	275	294	309	280	295	274	297	294
Education .....	288	299	306	269	244	242	203	249	245	245
Professional/other .....	461	484	486	451	415	417	365	325	364	374
Grand total, all fields .....	7,517	7,963	7,863	7,329	6,858	7,400	6,976	7,025	6,634	6,840
Non-U.S. citizens with temporary visas, women										
Science and engineering, total .....	1,229	1,351	1,455	1,321	1,245	1,496	1,521	1,754	1,647	1,864
Engineering, total .....	149	169	161	178	159	228	211	274	259	302
Chemical .....	22	31	27	35	21	45	43	60	44	48
Civil .....	16	27	22	25	23	31	21	39	26	37
Electrical .....	31	46	43	56	44	52	36	52	62	88
Mechanical .....	20	20	19	14	13	16	29	29	31	35
Other engineering .....	60	45	50	48	58	84	82	94	96	94
Sciences, total .....	1,080	1,182	1,294	1,143	1,086	1,268	1,310	1,480	1,388	1,562
Physical sciences, total .....	216	248	248	199	160	209	223	279	247	251
Astronomy .....	7	4	2	4	4	6	10	18	7	5
Chemistry .....	142	173	172	157	115	148	153	203	180	173
Physics .....	65	71	73	38	39	54	58	56	60	71
Other physical sciences .....	2	0	1	0	2	1	2	2	0	2
Earth, atmospheric, & ocean sciences .....	20	38	33	39	22	36	36	41	47	58
Mathematics .....	86	84	95	84	78	83	75	85	77	83
Computer sciences .....	23	36	26	41	43	41	38	23	48	49
Biological sciences .....	365	372	437	355	334	441	504	538	468	554
Agricultural sciences .....	69	81	90	87	89	101	93	107	116	104
Psychology .....	56	75	84	80	85	94	79	101	83	96
Social sciences .....	245	248	281	258	275	263	262	306	302	367
Non-S&E, total .....	565	639	614	756	707	718	682	714	776	944
Health .....	70	67	76	115	104	116	138	130	147	163
Humanities <sup>1</sup> .....	189	215	191	235	239	242	234	259	239	332
Education .....	215	254	240	268	258	235	205	239	274	296
Professional/other .....	91	103	107	138	106	125	105	86	116	153
Grand total, all fields .....	1,794	1,990	2,069	2,077	1,952	2,214	2,203	2,468	2,423	2,808

<sup>1</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total										
Science and engineering, total .....	24,023	24,675	25,443	26,205	26,534	27,228	27,240	27,277	25,913	25,979
Engineering, total .....	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,927	5,328	5,330
Aeronautical/astronautical .....	207	234	228	230	252	287	273	243	206	215
Chemical .....	691	725	737	725	708	798	767	775	673	726
Civil .....	575	594	624	684	656	697	656	650	583	558
Electrical .....	1,405	1,483	1,543	1,673	1,731	1,740	1,721	1,596	1,477	1,544
Industrial .....	165	196	236	228	284	258	246	229	212	176
Materials/metallurgical .....	489	485	535	539	588	572	581	565	469	451
Mechanical .....	875	987	1,030	1,015	1,025	1,052	1,021	1,023	854	864
Other engineering .....	807	734	765	728	764	901	849	846	854	796
Sciences, total .....	18,809	19,237	19,745	20,383	20,526	20,923	21,126	21,350	20,585	20,649
Physical sciences, total .....	3,626	3,781	3,699	3,977	3,841	3,837	3,768	3,823	3,578	3,411
Astronomy .....	125	134	145	144	173	192	198	207	159	187
Chemistry .....	2,194	2,214	2,137	2,257	2,162	2,148	2,147	2,215	2,132	1,990
Physics .....	1,286	1,403	1,399	1,548	1,479	1,484	1,401	1,377	1,270	1,205
Other physical sciences .....	21	30	18	28	27	13	22	24	17	29
Earth, atmospheric, and ocean sciences .....	815	794	771	824	780	794	878	814	805	757
Mathematics .....	1,039	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,048
Computer sciences .....	800	869	880	903	997	921	910	925	853	861
Biological sciences .....	4,650	4,799	5,092	5,203	5,375	5,723	5,786	5,843	5,581	5,855
Agricultural sciences .....	1,073	1,063	968	1,078	1,036	1,037	982	1,037	965	943
Psychology .....	3,250	3,263	3,420	3,379	3,429	3,491	3,568	3,676	3,659	3,623
Social sciences .....	3,556	3,610	3,769	3,901	3,878	3,998	4,111	4,055	4,061	4,151
Non-S&E, total .....	13,511	14,215	14,357	14,829	15,208	15,185	15,305	15,357	15,147	15,389
Health .....	1,041	1,112	1,197	1,296	1,330	1,324	1,422	1,501	1,404	1,589
Humanities <sup>1</sup> .....	3,720	4,036	4,091	4,374	4,690	4,713	5,035	5,112	5,028	5,214
Education .....	6,454	6,677	6,689	6,708	6,649	6,772	6,572	6,568	6,545	6,420
Professional/other .....	2,296	2,390	2,380	2,451	2,539	2,376	2,276	2,176	2,170	2,166
Grand total, all fields .....	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Citizenship known										
Science and engineering, total .....	23,555	24,034	24,686	25,708	25,989	26,444	25,898	26,019	24,688	24,712
Engineering, total .....	5,107	5,263	5,481	5,706	5,866	6,107	5,880	5,626	5,066	5,000
Aeronautical/astronautical .....	205	215	219	226	247	277	265	223	194	202
Chemical .....	680	717	713	716	699	790	752	746	652	688
Civil .....	566	572	607	677	646	674	637	613	563	540
Electrical .....	1,376	1,444	1,498	1,634	1,683	1,677	1,649	1,513	1,400	1,420
Industrial .....	162	192	230	228	280	252	237	221	207	170
Materials/metallurgical .....	481	469	516	530	575	556	558	541	452	424
Mechanical .....	852	964	988	997	1,000	1,019	985	970	815	826
Other engineering .....	785	690	710	698	736	862	797	799	783	730
Sciences, total .....	18,448	18,771	19,205	20,002	20,123	20,337	20,018	20,393	19,622	19,712
Physical sciences, total .....	3,557	3,703	3,593	3,896	3,771	3,709	3,580	3,654	3,398	3,240
Astronomy .....	123	134	145	144	169	191	195	199	154	183
Chemistry .....	2,150	2,170	2,075	2,213	2,117	2,075	2,037	2,123	2,027	1,884
Physics .....	1,264	1,371	1,356	1,515	1,458	1,430	1,329	1,309	1,200	1,145
Other physical sciences .....	20	28	17	24	27	13	19	23	17	28
Earth, atmospheric, and ocean sciences .....	803	777	739	810	767	763	836	778	765	711
Mathematics .....	1,024	1,018	1,107	1,105	1,153	1,090	1,070	1,116	1,047	1,010
Computer sciences .....	791	854	857	886	981	890	851	887	814	819
Biological sciences .....	4,584	4,727	4,998	5,146	5,297	5,605	5,574	5,637	5,399	5,650
Agricultural sciences .....	1,055	1,045	953	1,069	1,027	1,017	942	1,005	950	917
Psychology .....	3,151	3,142	3,309	3,287	3,348	3,409	3,272	3,442	3,391	3,385
Social sciences .....	3,483	3,505	3,649	3,803	3,779	3,854	3,893	3,874	3,858	3,980
Non-S&E, total .....	13,186	13,909	13,953	14,592	14,879	14,687	14,362	14,608	14,311	14,773
Health .....	1,010	1,081	1,153	1,280	1,290	1,283	1,300	1,440	1,325	1,494
Humanities <sup>1</sup> .....	3,638	3,935	3,977	4,295	4,603	4,567	4,763	4,857	4,810	5,009
Education .....	6,291	6,570	6,514	6,600	6,497	6,539	6,153	6,228	6,136	6,197
Professional/other .....	2,247	2,323	2,309	2,417	2,489	2,298	2,146	2,083	2,040	2,073
Grand total, all fields .....	36,741	37,943	38,639	40,300	40,868	41,131	40,260	40,627	38,999	39,485

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens										
Science and engineering, total .....	14,629	14,559	14,932	15,166	15,487	15,629	16,119	16,229	15,800	15,655
Engineering, total .....	2,086	2,109	2,228	2,215	2,386	2,594	2,736	2,565	2,473	2,206
Aeronautical/astronautical .....	103	95	114	110	140	166	155	139	102	117
Chemical .....	348	318	324	293	291	318	321	327	333	338
Civil .....	173	164	168	203	206	212	249	246	260	219
Electrical .....	554	597	630	634	683	707	751	638	637	527
Industrial .....	50	54	89	89	108	107	102	84	86	67
Materials/metallurgical .....	211	202	228	218	238	244	271	265	223	221
Mechanical .....	297	352	347	359	383	436	455	434	396	339
Other engineering .....	350	327	328	309	337	404	432	432	436	378
Sciences, total .....	12,543	12,450	12,704	12,951	13,101	13,035	13,383	13,664	13,327	13,449
Physical sciences, total .....	2,120	2,157	2,093	2,198	2,137	2,076	2,131	2,139	2,029	1,885
Astronomy .....	84	100	106	103	120	137	151	132	110	128
Chemistry .....	1,351	1,328	1,272	1,291	1,238	1,169	1,234	1,286	1,254	1,116
Physics .....	671	709	704	789	764	761	731	705	654	622
Other physical sciences .....	14	20	11	15	15	9	15	16	11	19
Earth, atmospheric, and ocean sciences .....	592	506	463	507	478	462	537	500	472	475
Mathematics .....	463	454	496	504	554	490	530	576	537	513
Computer sciences .....	388	422	425	426	484	422	430	474	412	387
Biological sciences .....	3,314	3,328	3,449	3,422	3,494	3,547	3,670	3,753	3,649	3,895
Agricultural sciences .....	564	511	457	519	492	473	468	464	440	446
Psychology .....	2,953	2,900	3,071	3,052	3,083	3,124	3,046	3,181	3,168	3,146
Social sciences .....	2,149	2,172	2,250	2,323	2,379	2,441	2,571	2,577	2,620	2,702
Non-S&E, total .....	10,944	11,451	11,516	11,981	12,253	12,121	12,032	12,208	11,836	12,233
Health .....	779	809	879	961	938	933	958	1,071	962	1,113
Humanities <sup>1</sup> .....	2,975	3,211	3,273	3,486	3,747	3,726	3,945	4,020	3,991	4,150
Education .....	5,614	5,852	5,791	5,864	5,777	5,866	5,580	5,569	5,439	5,532
Professional/other .....	1,576	1,579	1,573	1,670	1,791	1,596	1,549	1,548	1,444	1,438
Grand total, all fields .....	25,573	26,010	26,448	27,147	27,740	27,750	28,151	28,437	27,636	27,888

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens										
Science and engineering, total .....	8,926	9,475	9,754	10,542	10,502	10,815	9,779	9,790	8,888	9,057
Engineering, total .....	3,021	3,154	3,253	3,491	3,480	3,513	3,144	3,061	2,593	2,794
Aeronautical/astronautical .....	102	120	105	116	107	111	110	84	92	85
Chemical .....	332	399	389	423	408	472	431	419	319	350
Civil .....	393	408	439	474	440	462	388	367	303	321
Electrical .....	822	847	868	1,000	1,000	970	898	875	763	893
Industrial .....	112	138	141	139	172	145	135	137	121	103
Materials/metallurgical .....	270	267	288	312	337	312	287	276	229	203
Mechanical .....	555	612	641	638	617	583	530	536	419	487
Other engineering .....	435	363	382	389	399	458	365	367	347	352
Sciences, total .....	5,905	6,321	6,501	7,051	7,022	7,302	6,635	6,729	6,295	6,263
Physical sciences, total .....	1,437	1,546	1,500	1,698	1,634	1,633	1,449	1,515	1,369	1,355
Astronomy .....	39	34	39	41	49	54	44	67	44	55
Chemistry .....	799	842	803	922	879	906	803	837	773	768
Physics .....	593	662	652	726	694	669	598	604	546	523
Other physical sciences .....	6	8	6	9	12	4	4	7	6	9
Earth, atmospheric, and ocean sciences .....	211	271	276	303	289	301	299	278	293	236
Mathematics .....	561	564	611	601	599	600	540	540	510	497
Computer sciences .....	403	432	432	460	497	468	421	413	402	432
Biological sciences .....	1,270	1,399	1,549	1,724	1,803	2,058	1,904	1,884	1,750	1,755
Agricultural sciences .....	491	534	496	550	535	544	474	541	510	471
Psychology .....	198	242	238	235	265	285	226	261	223	239
Social sciences .....	1,334	1,333	1,399	1,480	1,400	1,413	1,322	1,297	1,238	1,278
Non-S&E, total .....	2,242	2,458	2,437	2,611	2,626	2,566	2,330	2,400	2,475	2,540
Health .....	231	272	274	319	352	350	342	369	363	381
Humanities <sup>1</sup> .....	663	724	704	809	856	841	818	837	819	859
Education .....	677	718	723	736	720	673	573	659	697	665
Professional/other .....	671	744	736	747	698	702	597	535	596	635
Grand total, all fields .....	11,168	11,933	12,191	13,153	13,128	13,381	12,109	12,190	11,363	11,597

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with permanent visas										
Science and engineering, total .....	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
Engineering, total .....	388	411	469	838	956	793	593	479	403	350
Aeronautical/astronautical .....	11	8	6	20	13	18	13	13	9	10
Chemical .....	51	60	53	87	90	73	88	46	38	42
Civil .....	40	51	59	89	103	93	78	51	51	41
Electrical .....	132	122	165	265	288	221	187	166	127	116
Industrial .....	18	20	16	30	41	29	17	17	13	10
Materials/metallurgical .....	29	34	39	79	114	92	44	48	35	22
Mechanical .....	62	74	87	179	180	152	82	82	65	56
Other engineering .....	45	42	44	89	127	115	84	56	65	53
Sciences, total .....	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
Physical sciences, total .....	180	200	237	591	704	493	366	313	242	199
Astronomy .....	2	6	5	9	21	12	7	15	7	12
Chemistry .....	110	113	128	325	386	293	205	179	150	120
Physics .....	68	81	102	255	295	187	152	117	84	66
Other physical sciences .....	0	0	2	2	2	1	2	2	1	1
Earth, atmospheric, and ocean sciences .....	26	35	41	106	116	96	70	62	51	34
Mathematics .....	55	53	94	153	217	158	99	93	66	55
Computer sciences .....	63	67	84	117	132	92	91	84	71	71
Biological sciences .....	211	240	303	666	835	818	584	551	464	365
Agricultural sciences .....	56	62	49	97	106	103	83	79	51	55
Psychology .....	65	86	90	84	101	104	89	93	70	75
Social sciences .....	241	229	274	369	342	352	305	262	234	205
Non-S&E, total .....	572	597	618	726	809	758	650	681	654	540
Health .....	60	46	60	89	106	83	69	82	77	75
Humanities <sup>1</sup> .....	219	229	238	280	308	319	289	304	283	233
Education .....	174	165	177	199	218	196	165	171	178	124
Professional/other .....	119	157	143	158	177	160	127	124	116	108
Grand total, all fields .....	1,857	1,980	2,259	3,747	4,318	3,767	2,930	2,697	2,306	1,949

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with temporary visas										
Science and engineering, total .....	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
Engineering, total .....	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
Aeronautical/astronautical .....	91	112	99	96	94	93	97	71	83	75
Chemical .....	281	339	336	336	318	399	343	373	281	308
Civil .....	353	357	380	385	337	369	310	316	252	280
Electrical .....	690	725	703	735	712	749	711	709	636	777
Industrial .....	94	118	125	109	131	116	118	120	108	93
Materials/metallurgical .....	241	233	249	233	223	220	243	228	194	181
Mechanical .....	493	538	554	459	437	431	448	454	354	431
Other engineering .....	390	321	338	300	272	343	281	311	282	299
Sciences, total .....	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
Physical sciences, total .....	1,257	1,346	1,263	1,107	930	1,140	1,083	1,202	1,127	1,156
Astronomy .....	37	28	34	32	28	42	37	52	37	43
Chemistry .....	689	729	675	597	493	613	598	658	623	648
Physics .....	525	581	550	471	399	482	446	487	462	457
Other physical sciences .....	6	8	4	7	10	3	2	5	5	8
Earth, atmospheric, and ocean sciences .....	185	236	235	197	173	205	229	216	242	202
Mathematics .....	506	511	517	448	382	442	441	447	444	442
Computer sciences .....	340	365	348	343	365	376	330	329	331	361
Biological sciences .....	1,059	1,159	1,246	1,058	968	1,240	1,320	1,333	1,286	1,390
Agricultural sciences .....	435	472	447	453	429	441	391	462	459	416
Psychology .....	133	156	148	151	164	181	137	168	153	164
Social sciences .....	1,093	1,104	1,125	1,111	1,058	1,061	1,017	1,035	1,004	1,073
Non-S&E, total .....	1,670	1,861	1,819	1,885	1,817	1,808	1,680	1,719	1,821	2,000
Health .....	171	226	214	230	246	267	273	287	286	306
Humanities <sup>1</sup> .....	444	495	466	529	548	522	529	533	536	626
Education .....	503	553	546	537	502	477	408	488	519	541
Professional/other .....	552	587	593	589	521	542	470	411	480	527
Grand total, all fields .....	9,311	9,953	9,932	9,406	8,810	9,614	9,179	9,493	9,057	9,648

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

Page 7 of 7

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Citizenship unknown										
Science and engineering, total .....	468	641	757	497	545	784	1,342	1,258	1,225	1,267
Engineering, total .....	107	175	217	116	142	198	234	301	262	330
Aeronautical/astronautical .....	2	19	9	4	5	10	8	20	12	13
Chemical .....	11	8	24	9	9	8	15	29	21	38
Civil .....	9	22	17	7	10	23	19	37	20	18
Electrical .....	29	39	45	39	48	63	72	83	77	124
Industrial .....	3	4	6	0	4	6	9	8	5	6
Materials/metallurgical .....	8	16	19	9	13	16	23	24	17	27
Mechanical .....	23	23	42	18	25	33	36	53	39	38
Other engineering .....	22	44	55	30	28	39	52	47	71	66
Sciences, total .....	361	466	540	381	403	586	1,108	957	963	937
Physical sciences, total .....	69	78	106	81	70	128	188	169	180	171
Astronomy .....	2	0	0	0	4	1	3	8	5	4
Chemistry .....	44	44	62	44	45	73	110	92	105	106
Physics .....	22	32	43	33	21	54	72	68	70	60
Other physical sciences .....	1	2	1	4	0	0	3	1	0	1
Earth, atmospheric, and ocean sciences .....	12	17	32	14	13	31	42	36	40	46
Mathematics .....	15	40	39	13	37	32	53	61	36	38
Computer sciences .....	9	15	23	17	16	31	59	38	39	42
Biological sciences .....	66	72	94	57	78	118	212	206	182	205
Agricultural sciences .....	18	18	15	9	9	20	40	32	15	26
Psychology .....	99	121	111	92	81	82	296	234	268	238
Social sciences .....	73	105	120	98	99	144	218	181	203	171
Non-S&E, total .....	325	306	404	237	329	498	943	749	836	616
Health .....	31	31	44	16	40	41	122	61	79	95
Humanities <sup>1</sup> .....	82	101	114	79	87	146	272	255	218	205
Education .....	163	107	175	108	152	233	419	340	409	223
Professional/other .....	49	67	71	34	50	78	130	93	130	93
Grand total, all fields .....	793	947	1,161	734	874	1,282	2,285	2,007	2,061	1,883

<sup>1</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

Page 1 of 4

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	21.7	22.0	22.4	22.2	22.6	23.2	22.4	21.7	20.6	20.5
Aeronautical/astronautical .....	.9	.9	.9	.9	.9	1.1	1.0	.9	.8	.8
Chemical .....	2.9	2.9	2.9	2.8	2.7	2.9	2.8	2.8	2.6	2.8
Civil .....	2.4	2.4	2.5	2.6	2.5	2.6	2.4	2.4	2.2	2.1
Electrical .....	5.8	6.0	6.1	6.4	6.5	6.4	6.3	5.9	5.7	5.9
Industrial .....	.7	.8	.9	.9	1.1	.9	.9	.8	.8	.7
Materials/metallurgical .....	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	1.8	1.7
Mechanical .....	3.6	4.0	4.0	3.9	3.9	3.9	3.7	3.8	3.3	3.3
Other engineering .....	3.4	3.0	3.0	2.8	2.9	3.3	3.1	3.1	3.3	3.1
Sciences, total .....	78.3	78.0	77.6	77.8	77.4	76.8	77.6	78.3	79.4	79.5
Physical sciences, total .....	15.1	15.3	14.5	15.2	14.5	14.1	13.8	14.0	13.8	13.1
Astronomy .....	.5	.5	.6	.5	.7	.7	.7	.8	.6	.7
Chemistry .....	9.1	9.0	8.4	8.6	8.1	7.9	7.9	8.1	8.2	7.7
Physics .....	5.4	5.7	5.5	5.9	5.6	5.5	5.1	5.0	4.9	4.6
Other physical sciences .....	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	3.4	3.2	3.0	3.1	2.9	2.9	3.2	3.0	3.1	2.9
Mathematics .....	4.3	4.3	4.5	4.3	4.5	4.1	4.1	4.3	4.2	4.0
Computer sciences .....	3.3	3.5	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3
Biological sciences .....	19.4	19.4	20.0	19.9	20.3	21.0	21.2	21.4	21.5	22.5
Agricultural sciences .....	4.5	4.3	3.8	4.1	3.9	3.8	3.6	3.8	3.7	3.6
Psychology .....	13.5	13.2	13.4	12.9	12.9	12.8	13.1	13.5	14.1	13.9
Social sciences .....	14.8	14.6	14.8	14.9	14.6	14.7	15.1	14.9	15.7	16.0
Citizenship known										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	21.7	21.9	22.2	22.2	22.6	23.1	22.7	21.6	20.5	20.2
Aeronautical/astronautical .....	.9	.9	.9	.9	1.0	1.0	1.0	.9	.8	.8
Chemical .....	2.9	3.0	2.9	2.8	2.7	3.0	2.9	2.9	2.6	2.8
Civil .....	2.4	2.4	2.5	2.6	2.5	2.5	2.5	2.4	2.3	2.2
Electrical .....	5.8	6.0	6.1	6.4	6.5	6.3	6.4	5.8	5.7	5.7
Industrial .....	.7	.8	.9	.9	1.1	1.0	.9	.8	.8	.7
Materials/metallurgical .....	2.0	2.0	2.1	2.1	2.2	2.1	2.2	2.1	1.8	1.7
Mechanical .....	3.6	4.0	4.0	3.9	3.8	3.9	3.8	3.7	3.3	3.3
Other engineering .....	3.3	2.9	2.9	2.7	2.8	3.3	3.1	3.1	3.2	3.0
Sciences, total .....	78.3	78.1	77.8	77.8	77.4	76.9	77.3	78.4	79.5	79.8
Physical sciences, total .....	15.1	15.4	14.6	15.2	14.5	14.0	13.8	14.0	13.8	13.1
Astronomy .....	.5	.6	.6	.6	.7	.7	.8	.8	.6	.7
Chemistry .....	9.1	9.0	8.4	8.6	8.1	7.8	7.9	8.2	8.2	7.6
Physics .....	5.4	5.7	5.5	5.9	5.6	5.4	5.1	5.0	4.9	4.6
Other physical sciences .....	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	3.4	3.2	3.0	3.2	3.0	2.9	3.2	3.0	3.1	2.9
Mathematics .....	4.3	4.2	4.5	4.3	4.4	4.1	4.1	4.3	4.2	4.1
Computer sciences .....	3.4	3.6	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3
Biological sciences .....	19.5	19.7	20.2	20.0	20.4	21.2	21.5	21.7	21.9	22.9
Agricultural sciences .....	4.5	4.3	3.9	4.2	4.0	3.8	3.6	3.9	3.8	3.7
Psychology .....	13.4	13.1	13.4	12.8	12.9	12.9	12.6	13.2	13.7	13.7
Social sciences .....	14.8	14.6	14.8	14.8	14.5	14.6	15.0	14.9	15.6	16.1

See explanatory information, if any, and SOURCE at end of table.

**Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. citizens										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	14.3	14.5	14.9	14.6	15.4	16.6	17.0	15.8	15.7	14.1
Aeronautical/astronautical .....	.7	.7	.8	.7	.9	1.1	1.0	.9	.6	.7
Chemical .....	2.4	2.2	2.2	1.9	1.9	2.0	2.0	2.0	2.1	2.2
Civil .....	1.2	1.1	1.1	1.3	1.3	1.4	1.5	1.5	1.6	1.4
Electrical .....	3.8	4.1	4.2	4.2	4.4	4.5	4.7	3.9	4.0	3.4
Industrial .....	.3	.4	.6	.6	.7	.7	.6	.5	.5	.4
Materials/metallurgical .....	1.4	1.4	1.5	1.4	1.5	1.6	1.7	1.6	1.4	1.4
Mechanical .....	2.0	2.4	2.3	2.4	2.5	2.8	2.8	2.7	2.5	2.2
Other engineering .....	2.4	2.2	2.2	2.0	2.2	2.6	2.7	2.7	2.8	2.4
Sciences, total .....	85.7	85.5	85.1	85.4	84.6	83.4	83.0	84.2	84.3	85.9
Physical sciences, total .....	14.5	14.8	14.0	14.5	13.8	13.3	13.2	13.2	12.8	12.0
Astronomy .....	.6	.7	.7	.7	.8	.9	.9	.8	.7	.8
Chemistry .....	9.2	9.1	8.5	8.5	8.0	7.5	7.7	7.9	7.9	7.1
Physics .....	4.6	4.9	4.7	5.2	4.9	4.9	4.5	4.3	4.1	4.0
Other physical sciences .....	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	4.0	3.5	3.1	3.3	3.1	3.0	3.3	3.1	3.0	3.0
Mathematics .....	3.2	3.1	3.3	3.3	3.6	3.1	3.3	3.5	3.4	3.3
Computer sciences .....	2.7	2.9	2.8	2.8	3.1	2.7	2.7	2.9	2.6	2.5
Biological sciences .....	22.7	22.9	23.1	22.6	22.6	22.7	22.8	23.1	23.1	24.9
Agricultural sciences .....	3.9	3.5	3.1	3.4	3.2	3.0	2.9	2.9	2.8	2.8
Psychology .....	20.2	19.9	20.6	20.1	19.9	20.0	18.9	19.6	20.1	20.1
Social sciences .....	14.7	14.9	15.1	15.3	15.4	15.6	16.0	15.9	16.6	17.3
Non-U.S. citizens										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	33.8	33.3	33.4	33.1	33.1	32.5	32.2	31.3	29.2	30.8
Aeronautical/astronautical .....	1.1	1.3	1.1	1.1	1.0	1.0	1.1	.9	1.0	.9
Chemical .....	3.7	4.2	4.0	4.0	3.9	4.4	4.4	4.3	3.6	3.9
Civil .....	4.4	4.3	4.5	4.5	4.2	4.3	4.0	3.7	3.4	3.5
Electrical .....	9.2	8.9	8.9	9.5	9.5	9.0	9.2	8.9	8.6	9.9
Industrial .....	1.3	1.5	1.4	1.3	1.6	1.3	1.4	1.4	1.4	1.1
Materials/metallurgical .....	3.0	2.8	3.0	3.0	3.2	2.9	2.9	2.8	2.6	2.2
Mechanical .....	6.2	6.5	6.6	6.1	5.9	5.4	5.4	5.5	4.7	5.4
Other engineering .....	4.9	3.8	3.9	3.7	3.8	4.2	3.7	3.7	3.9	3.9
Sciences, total .....	66.2	66.7	66.6	66.9	66.9	67.5	67.8	68.7	70.8	69.2
Physical sciences, total .....	16.1	16.3	15.4	16.1	15.6	15.1	14.8	15.5	15.4	15.0
Astronomy .....	.4	.4	.4	.4	.5	.5	.4	.7	.5	.6
Chemistry .....	9.0	8.9	8.2	8.7	8.4	8.4	8.2	8.5	8.7	8.5
Physics .....	6.6	7.0	6.7	6.9	6.6	6.2	6.1	6.2	6.1	5.8
Other physical sciences .....	.1	.1	.1	.1	.1	.0	.0	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	2.4	2.9	2.8	2.9	2.8	2.8	3.1	2.8	3.3	2.6
Mathematics .....	6.3	6.0	6.3	5.7	5.7	5.5	5.5	5.5	5.7	5.5
Computer sciences .....	4.5	4.6	4.4	4.4	4.7	4.3	4.3	4.2	4.5	4.8
Biological sciences .....	14.2	14.8	15.9	16.4	17.2	19.0	19.5	19.2	19.7	19.4
Agricultural sciences .....	5.5	5.6	5.1	5.2	5.1	5.0	4.8	5.5	5.7	5.2
Psychology .....	2.2	2.6	2.4	2.2	2.5	2.6	2.3	2.7	2.5	2.6
Social sciences .....	14.9	14.1	14.3	14.0	13.3	13.1	13.5	13.2	13.9	14.1

See explanatory information, if any, and SOURCE at end of table.

**Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-U.S. citizens with permanent visas										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	30.2	29.7	28.6	27.7	27.2	26.4	26.0	23.8	24.4	24.8
Aeronautical/astronautical .....	.9	.6	.4	.7	.4	.6	.6	.5	.5	.7
Chemical .....	4.0	4.3	3.2	2.9	2.6	2.4	3.9	2.3	2.3	3.0
Civil .....	3.1	3.7	3.6	2.9	2.9	3.1	3.4	2.5	3.1	2.9
Electrical .....	10.3	8.8	10.1	8.8	8.2	7.3	8.2	8.2	7.7	8.2
Industrial .....	1.4	1.4	1.0	1.0	1.2	1.0	.7	.8	.8	.7
Materials/metallurgical .....	2.3	2.5	2.4	2.6	3.2	3.1	1.9	2.4	2.1	1.6
Mechanical .....	4.8	5.4	5.3	5.9	5.1	5.1	3.6	4.1	3.9	4.0
Other engineering .....	3.5	3.0	2.7	2.9	3.6	3.8	3.7	2.8	3.9	3.8
Sciences, total .....	69.8	70.3	71.4	72.3	72.8	73.6	74.0	76.2	75.6	75.2
Physical sciences, total .....	14.0	14.5	14.4	19.6	20.1	16.4	16.1	15.5	14.6	14.1
Astronomy .....	.2	.4	.3	.3	.6	.4	.3	.7	.4	.9
Chemistry .....	8.6	8.2	7.8	10.8	11.0	9.7	9.0	8.9	9.1	8.5
Physics .....	5.3	5.9	6.2	8.4	8.4	6.2	6.7	5.8	5.1	4.7
Other physical sciences .....	.0	.0	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	2.0	2.5	2.5	3.5	3.3	3.2	3.1	3.1	3.1	2.4
Mathematics .....	4.3	3.8	5.7	5.1	6.2	5.3	4.3	4.6	4.0	3.9
Computer sciences .....	4.9	4.8	5.1	3.9	3.8	3.1	4.0	4.2	4.3	5.0
Biological sciences .....	16.4	17.4	18.5	22.0	23.8	27.2	25.6	27.3	28.1	25.9
Agricultural sciences .....	4.4	4.5	3.0	3.2	3.0	3.4	3.6	3.9	3.1	3.9
Psychology .....	5.1	6.2	5.5	2.8	2.9	3.5	3.9	4.6	4.2	5.3
Social sciences .....	18.8	16.6	16.7	12.2	9.7	11.7	13.4	13.0	14.2	14.5
Non-U.S. citizens with temporary visas										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	34.5	33.9	34.3	35.3	36.1	34.8	34.0	33.2	30.3	32.0
Aeronautical/astronautical .....	1.2	1.4	1.2	1.3	1.3	1.2	1.3	.9	1.1	1.0
Chemical .....	3.7	4.2	4.1	4.5	4.5	5.1	4.6	4.8	3.9	4.0
Civil .....	4.6	4.4	4.7	5.1	4.8	4.7	4.1	4.1	3.5	3.7
Electrical .....	9.0	9.0	8.7	9.8	10.2	9.6	9.5	9.1	8.8	10.2
Industrial .....	1.2	1.5	1.5	1.4	1.9	1.5	1.6	1.5	1.5	1.2
Materials/metallurgical .....	3.2	2.9	3.1	3.1	3.2	2.8	3.2	2.9	2.7	2.4
Mechanical .....	6.5	6.6	6.8	6.1	6.2	5.5	6.0	5.8	4.9	5.6
Other engineering .....	5.1	4.0	4.2	4.0	3.9	4.4	3.7	4.0	3.9	3.9
Sciences, total .....	65.5	66.1	65.7	64.7	63.9	65.2	66.0	66.8	69.7	68.0
Physical sciences, total .....	16.5	16.6	15.6	14.7	13.3	14.6	14.4	15.5	15.6	15.1
Astronomy .....	.5	.3	.4	.4	.4	.5	.5	.7	.5	.6
Chemistry .....	9.0	9.0	8.3	7.9	7.0	7.9	8.0	8.5	8.6	8.5
Physics .....	6.9	7.2	6.8	6.3	5.7	6.2	5.9	6.3	6.4	6.0
Other physical sciences .....	.1	.1	.0	.1	.1	.0	.0	.1	.1	.1
Earth, atmospheric, and ocean sciences .....	2.4	2.9	2.9	2.6	2.5	2.6	3.1	2.8	3.3	2.6
Mathematics .....	6.6	6.3	6.4	6.0	5.5	5.7	5.9	5.7	6.1	5.8
Computer sciences .....	4.4	4.5	4.3	4.6	5.2	4.8	4.4	4.2	4.6	4.7
Biological sciences .....	13.9	14.3	15.4	14.1	13.8	15.9	17.6	17.1	17.8	18.2
Agricultural sciences .....	5.7	5.8	5.5	6.0	6.1	5.6	5.2	5.9	6.3	5.4
Psychology .....	1.7	1.9	1.8	2.0	2.3	2.3	1.8	2.2	2.1	2.1
Social sciences .....	14.3	13.6	13.9	14.8	15.1	13.6	13.6	13.3	13.9	14.0

See explanatory information, if any, and SOURCE at end of table.

**Table 4a. Percentage distribution of science and engineering doctorates awarded,  
by major field and citizenship status of recipients: 1991-2000**

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Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Citizenship unknown										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	22.9	27.3	28.7	23.3	26.1	25.3	17.4	23.9	21.4	26.0
Aeronautical/astronautical .....	.4	3.0	1.2	.8	.9	1.3	.6	1.6	1.0	1.0
Chemical .....	2.4	1.2	3.2	1.8	1.7	1.0	1.1	2.3	1.7	3.0
Civil .....	1.9	3.4	2.2	1.4	1.8	2.9	1.4	2.9	1.6	1.4
Electrical .....	6.2	6.1	5.9	7.8	8.8	8.0	5.4	6.6	6.3	9.8
Industrial .....	.6	.6	.8	.0	.7	.8	.7	.6	.4	.5
Materials/metallurgical .....	1.7	2.5	2.5	1.8	2.4	2.0	1.7	1.9	1.4	2.1
Mechanical .....	4.9	3.6	5.5	3.6	4.6	4.2	2.7	4.2	3.2	3.0
Other engineering .....	4.7	6.9	7.3	6.0	5.1	5.0	3.9	3.7	5.8	5.2
Sciences, total .....	77.1	72.7	71.3	76.7	73.9	74.7	82.6	76.1	78.6	74.0
Physical sciences, total .....	14.7	12.2	14.0	16.3	12.8	16.3	14.0	13.4	14.7	13.5
Astronomy .....	.4	.0	.0	.0	.7	.1	.2	.6	.4	.3
Chemistry .....	9.4	6.9	8.2	8.9	8.3	9.3	8.2	7.3	8.6	8.4
Physics .....	4.7	5.0	5.7	6.6	3.9	6.9	5.4	5.4	5.7	4.7
Other physical sciences .....	.2	.3	.1	.8	.0	.0	.2	.1	.0	.1
Earth, atmospheric, and ocean sciences .....	2.6	2.7	4.2	2.8	2.4	4.0	3.1	2.9	3.3	3.6
Mathematics .....	3.2	6.2	5.2	2.6	6.8	4.1	3.9	4.8	2.9	3.0
Computer sciences .....	1.9	2.3	3.0	3.4	2.9	4.0	4.4	3.0	3.2	3.3
Biological sciences .....	14.1	11.2	12.4	11.5	14.3	15.1	15.8	16.4	14.9	16.2
Agricultural sciences .....	3.8	2.8	2.0	1.8	1.7	2.6	3.0	2.5	1.2	2.1
Psychology .....	21.2	18.9	14.7	18.5	14.9	10.5	22.1	18.6	21.9	18.8
Social sciences .....	15.6	16.4	15.9	19.7	18.2	18.4	16.2	14.4	16.6	13.5

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

Page 1 of 9

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total non-U.S. citizens, S&E										
Total foreign citizenship .....	8,926	9,475	9,754	10,542	10,502	10,815	9,779	9,790	8,888	9,057
North America, total .....	525	515	506	547	505	530	462	545	532	605
Canada .....	297	304	285	275	274	276	249	278	282	289
Caribbean .....	54	44	38	61	60	51	46	61	52	52
Central America .....	46	52	44	69	43	45	35	42	39	55
Mexico .....	128	115	139	142	128	158	132	164	159	209
South America, total .....	387	394	394	408	359	454	388	411	420	433
Argentina .....	62	86	53	56	49	66	67	70	53	76
Brazil .....	119	133	151	157	137	204	145	152	157	126
Chile .....	54	48	52	42	38	36	29	24	33	43
Colombia .....	49	37	35	48	45	42	38	26	45	54
South America, other .....	103	90	103	105	90	106	109	139	132	134
Europe, total .....	972	950	1,104	1,150	1,254	1,260	1,276	1,477	1,460	1,494
Belgium .....	43	42	24	21	32	25	17	17	21	20
England, United Kingdom .....	132	137	154	128	132	117	89	124	141	99
France .....	67	77	93	96	83	68	73	76	79	82
Germany .....	118	124	164	196	208	170	178	205	178	228
Europe, other .....	612	570	669	709	799	880	919	1,055	1,041	1,065
East Asia, total .....	4,486	4,865	5,010	5,484	5,486	5,597	4,555	4,531	4,069	4,249
Taiwan .....	1,127	1,242	1,213	1,301	1,240	1,149	1,022	891	733	669
China, People's Republic of .....	1,793	2,045	2,227	2,531	2,751	2,954	2,288	2,413	2,182	2,358
Hong Kong .....	121	109	109	95	90	110	84	83	53	45
Japan .....	125	132	132	182	155	167	149	152	156	197
Korea .....	1,114	1,127	1,123	1,150	1,005	979	848	794	740	746
Thailand .....	93	87	77	97	113	119	87	115	130	147
East Asia, other .....	113	123	129	128	132	119	77	83	75	87
West Asia, total .....	1,670	1,891	1,903	2,077	2,181	2,140	1,914	1,750	1,595	1,559
India .....	752	861	933	1,065	1,207	1,257	1,210	1,082	889	821
Iran .....	227	200	203	174	173	147	112	91	92	80
Iraq .....	24	34	17	22	14	9	7	5	5	2
Israel .....	89	87	89	109	86	84	59	58	47	45
Lebanon .....	55	62	50	73	56	53	30	37	24	27
Saudi Arabia .....	67	76	46	76	71	74	61	39	48	53
Turkey .....	100	132	136	144	166	147	160	161	187	266
West Asia, other .....	356	439	429	414	408	369	275	277	303	265
Pacific/Australasia, total .....	216	220	227	231	231	232	196	192	156	178
Australia .....	35	40	47	56	61	42	47	46	46	42
Indonesia .....	69	78	78	83	83	69	62	60	44	61
Pacific/Australasia, other .....	112	102	102	92	87	121	87	86	66	75
Africa, total .....	500	510	474	583	423	442	335	339	327	347
Egypt .....	112	101	88	104	78	89	70	84	61	79
Nigeria .....	83	68	55	60	53	39	23	34	34	22
Africa, other .....	305	341	331	419	292	314	242	221	232	246
Country unknown .....	170	130	136	62	63	160	653	545	329	192

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

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Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total non-U.S. citizens, engineering										
Total foreign citizenship .....	3,021	3,154	3,253	3,491	3,480	3,513	3,144	3,061	2,593	2,794
North America, total .....	84	73	82	90	82	96	81	92	109	118
Canada .....	54	46	42	36	41	45	44	35	51	49
Caribbean .....	3	5	4	14	7	8	12	15	12	8
Central America .....	5	6	9	10	8	6	2	6	5	6
Mexico .....	22	16	27	30	26	37	23	36	41	55
South America, total .....	86	87	97	111	88	117	92	97	91	106
Argentina .....	12	14	10	7	7	8	14	13	8	11
Brazil .....	34	31	46	49	46	65	43	47	40	35
Chile .....	8	10	5	8	8	8	1	1	6	9
Colombia .....	11	9	8	12	10	7	4	7	7	15
South America, other .....	21	23	28	35	17	29	30	29	30	36
Europe, total .....	200	202	244	257	297	236	233	294	275	294
Belgium .....	9	10	7	7	12	4	4	3	1	5
England, United Kingdom .....	14	17	18	14	20	10	12	12	14	11
France .....	19	25	32	32	24	25	11	23	23	23
Germany .....	8	18	23	29	37	16	27	29	36	45
Europe, other .....	150	132	164	175	204	181	179	227	201	210
East Asia, total .....	1,629	1,701	1,733	1,887	1,869	1,852	1,472	1,450	1,249	1,403
Taiwan .....	597	637	592	670	616	572	432	378	301	285
China, People's Republic of .....	477	508	543	656	773	804	636	668	580	711
Hong Kong .....	30	37	32	14	20	31	13	26	11	12
Japan .....	29	25	23	46	30	32	37	20	30	23
Korea .....	435	437	484	429	344	323	299	282	264	284
Thailand .....	20	21	18	34	38	43	38	51	51	58
East Asia, other .....	41	36	41	38	48	47	17	25	12	30
West Asia, total .....	768	863	889	908	961	982	907	805	658	662
India .....	357	405	448	480	572	617	586	518	369	354
Iran .....	123	110	95	92	85	66	60	43	42	38
Iraq .....	11	14	6	9	8	2	5	3	5	2
Israel .....	27	26	23	17	19	20	13	12	8	6
Lebanon .....	38	37	27	45	31	21	9	18	9	12
Saudi Arabia .....	26	31	19	28	25	34	30	17	24	17
Turkey .....	64	81	74	64	73	73	95	79	96	132
West Asia, other .....	122	159	197	173	148	149	109	115	105	101
Pacific/Australasia, total .....	45	48	43	50	44	38	46	46	24	44
Australia .....	7	11	6	11	7	6	8	4	8	4
Indonesia .....	19	24	29	28	29	15	22	27	13	27
Pacific/Australasia, other .....	19	13	8	11	8	17	16	15	3	13
Africa, total .....	155	138	121	168	122	143	105	106	95	107
Egypt .....	57	46	48	63	48	59	45	60	48	59
Nigeria .....	20	11	12	6	14	11	8	7	8	3
Africa, other .....	78	81	61	99	60	73	52	39	39	45
Country unknown .....	54	42	44	20	17	49	208	171	92	60

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

Page 3 of 9

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total non-U.S. citizens, sciences										
Total foreign citizenship .....	5,905	6,321	6,501	7,051	7,022	7,302	6,635	6,729	6,295	6,263
North America, total .....	441	442	424	457	423	434	381	453	423	487
Canada .....	243	258	243	239	233	231	205	243	231	240
Caribbean .....	51	39	34	47	53	43	34	46	40	44
Central America .....	41	46	35	59	35	39	33	36	34	49
Mexico .....	106	99	112	112	102	121	109	128	118	154
South America, total .....	301	307	297	297	271	337	296	314	329	327
Argentina .....	50	72	43	49	42	58	53	57	45	65
Brazil .....	85	102	105	108	91	139	102	105	117	91
Chile .....	46	38	47	34	30	28	28	23	27	34
Colombia .....	38	28	27	36	35	35	34	19	38	39
South America, other .....	82	67	75	70	73	77	79	110	102	98
Europe, total .....	772	748	860	893	957	1,024	1,043	1,183	1,185	1,200
Belgium .....	34	32	17	14	20	21	13	14	20	15
England, United Kingdom .....	118	120	136	114	112	107	77	112	127	88
France .....	48	52	61	64	59	43	62	53	56	59
Germany .....	110	106	141	167	171	154	151	176	142	183
Europe, other .....	462	438	505	534	595	699	740	828	840	855
East Asia, total .....	2,857	3,164	3,277	3,597	3,617	3,745	3,083	3,081	2,820	2,846
Taiwan .....	530	605	621	631	624	577	590	513	432	384
China, People's Republic of .....	1,316	1,537	1,684	1,875	1,978	2,150	1,652	1,745	1,602	1,647
Hong Kong .....	91	72	77	81	70	79	71	57	42	33
Japan .....	96	107	109	136	125	135	112	132	126	174
Korea .....	679	690	639	721	661	656	549	512	476	462
Thailand .....	73	66	59	63	75	76	49	64	79	89
East Asia, other .....	72	87	88	90	84	72	60	58	63	57
West Asia, total .....	902	1,028	1,014	1,169	1,220	1,158	1,007	945	937	897
India .....	395	456	485	585	635	640	624	564	520	467
Iran .....	104	90	108	82	88	81	52	48	50	42
Iraq .....	13	20	11	13	6	7	2	2	0	0
Israel .....	62	61	66	92	67	64	46	46	39	39
Lebanon .....	17	25	23	28	25	32	21	19	15	15
Saudi Arabia .....	41	45	27	48	46	40	31	22	24	36
Turkey .....	36	51	62	80	93	74	65	82	91	134
West Asia, other .....	234	280	232	241	260	220	166	162	198	164
Pacific/Australasia, total .....	171	172	184	181	187	194	150	146	132	134
Australia .....	28	29	41	45	54	36	39	42	38	38
Indonesia .....	50	54	49	55	54	54	40	33	31	34
Pacific/Australasia, other .....	93	89	94	81	79	104	71	71	63	62
Africa, total .....	345	372	353	415	301	299	230	233	232	240
Egypt .....	55	55	40	41	30	30	25	24	13	20
Nigeria .....	63	57	43	54	39	28	15	27	26	19
Africa, other .....	227	260	270	320	232	241	190	182	193	201
Country unknown .....	116	88	92	42	46	111	445	374	237	132

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

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Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Permanent visas, S&E										
Total foreign citizenship .....	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
North America, total .....	126	118	120	119	135	119	104	112	100	91
Canada .....	75	76	71	58	78	70	53	66	56	51
Caribbean .....	19	16	15	28	26	27	20	21	20	17
Central America .....	11	8	6	14	8	2	8	5	12	5
Mexico .....	21	18	28	19	23	20	23	20	12	18
South America, total .....	62	74	63	64	51	64	70	50	49	49
Argentina .....	16	17	17	13	9	17	20	6	9	12
Brazil .....	8	21	11	16	11	11	7	11	10	10
Chile .....	6	6	7	4	9	5	8	7	11	6
Colombia .....	11	9	5	13	8	10	6	5	4	9
South America, other .....	21	21	23	18	14	21	29	21	15	12
Europe, total .....	211	210	258	275	284	312	338	359	336	339
Belgium .....	8	8	8	4	7	8	8	3	6	5
England, United Kingdom .....	52	58	47	56	49	50	39	43	51	36
France .....	12	10	19	16	15	16	23	25	15	19
Germany .....	25	39	45	62	53	51	42	43	33	60
Europe, other .....	114	95	139	137	160	187	226	245	231	219
East Asia, total .....	407	486	663	2,001	2,487	1,937	1,237	1,076	744	565
Taiwan .....	160	172	155	178	165	136	148	103	78	66
China, People's Republic of .....	100	162	352	1,642	2,169	1,630	954	845	530	379
Hong Kong .....	16	28	20	20	15	18	15	14	11	8
Japan .....	20	18	20	30	19	23	24	22	27	35
Korea .....	91	83	91	99	87	93	80	71	79	61
Thailand .....	8	9	11	11	10	14	4	8	3	4
East Asia, other .....	12	14	14	21	22	23	12	13	16	12
West Asia, total .....	287	340	359	375	383	388	315	259	285	234
India .....	108	148	142	173	168	198	187	135	135	108
Iran .....	83	82	100	65	84	74	37	38	46	40
Iraq .....	3	8	4	7	5	4	1	3	3	1
Israel .....	18	15	22	41	21	17	17	17	16	9
Lebanon .....	10	6	11	12	11	11	6	7	9	5
Saudi Arabia .....	2	7	4	7	4	10	1	0	3	3
Turkey .....	11	20	18	15	19	23	21	17	22	26
West Asia, other .....	52	54	58	55	71	51	45	42	51	42
Pacific/Australasia, total .....	34	23	35	40	43	32	30	25	31	30
Australia .....	9	9	10	13	10	13	9	6	18	11
Indonesia .....	9	5	6	13	16	3	8	7	5	11
Pacific/Australasia, other .....	16	9	19	14	17	16	13	12	8	8
Africa, total .....	103	95	100	123	91	83	83	82	78	83
Egypt .....	13	9	9	12	12	11	12	12	9	16
Nigeria .....	35	34	30	33	32	17	7	15	20	11
Africa, other .....	55	52	61	78	47	55	64	55	49	56
Country unknown .....	55	37	43	24	35	74	103	53	29	18

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

Page 5 of 9

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Permanent visas, engineering										
Total foreign citizenship .....	388	411	469	838	956	793	593	479	403	350
North America, total .....	17	13	16	14	23	15	14	17	19	13
Canada .....	14	8	9	6	9	6	7	8	10	7
Caribbean .....	0	2	2	4	3	5	4	5	5	3
Central America .....	2	2	1	2	4	0	1	0	2	0
Mexico .....	1	1	4	2	7	4	2	4	2	3
South America, total .....	12	14	8	13	7	9	12	7	6	6
Argentina .....	5	4	2	1	1	3	5	0	0	1
Brazil .....	2	2	1	2	2	3	2	2	3	0
Chile .....	0	1	0	1	1	0	0	0	2	1
Colombia .....	1	2	1	4	1	1	2	1	0	3
South America, other .....	4	5	4	5	2	2	3	4	1	1
Europe, total .....	33	33	42	49	68	58	70	69	56	68
Belgium .....	1	2	2	1	1	1	3	0	1	1
England, United Kingdom .....	3	8	4	7	9	4	4	6	7	4
France .....	4	3	4	5	3	5	3	6	4	8
Germany .....	0	5	3	11	8	6	6	4	3	11
Europe, other .....	25	15	29	25	47	42	54	53	41	44
East Asia, total .....	166	163	221	576	696	517	317	253	191	156
Taiwan .....	88	80	73	89	76	77	57	39	38	27
China, People's Republic of .....	25	39	88	426	566	380	215	182	108	99
Hong Kong .....	7	10	10	7	5	9	4	4	5	1
Japan .....	5	3	2	5	2	2	3	0	1	3
Korea .....	36	25	43	42	34	36	36	20	33	24
Thailand .....	1	2	1	1	4	3	0	5	2	1
East Asia, other .....	4	4	4	6	9	10	2	3	4	1
West Asia, total .....	118	144	151	140	119	151	121	96	100	76
India .....	44	57	56	61	55	77	65	43	39	27
Iran .....	42	44	43	28	29	29	17	19	19	16
Iraq .....	0	2	2	5	3	0	1	2	3	1
Israel .....	4	5	6	6	0	0	2	2	2	0
Lebanon .....	4	4	6	5	3	8	2	5	7	1
Saudi Arabia .....	0	1	2	3	3	3	0	0	2	1
Turkey .....	5	10	6	6	7	12	15	4	11	13
West Asia, other .....	19	21	30	26	19	22	19	21	17	17
Pacific/Australasia, total .....	5	7	6	12	9	4	7	7	6	6
Australia .....	2	4	1	4	0	2	1	0	4	1
Indonesia .....	3	2	4	7	7	0	4	6	1	4
Pacific/Australasia, other .....	0	1	1	1	2	2	2	1	1	1
Africa, total .....	25	23	14	28	28	24	22	20	21	22
Egypt .....	4	3	3	4	9	4	5	8	6	10
Nigeria .....	9	6	3	2	10	5	1	2	5	2
Africa, other .....	12	14	8	22	9	15	16	10	10	10
Country unknown .....	12	14	11	6	6	15	30	10	4	3

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

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Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Permanent visas, sciences										
Total foreign citizenship .....	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
North America, total .....	109	105	104	105	112	104	90	95	81	78
Canada .....	61	68	62	52	69	64	46	58	46	44
Caribbean .....	19	14	13	24	23	22	16	16	15	14
Central America .....	9	6	5	12	4	2	7	5	10	5
Mexico .....	20	17	24	17	16	16	21	16	10	15
South America, total .....	50	60	55	51	44	55	58	43	43	43
Argentina .....	11	13	15	12	8	14	15	6	9	11
Brazil .....	6	19	10	14	9	8	5	9	7	10
Chile .....	6	5	7	3	8	5	8	7	9	5
Colombia .....	10	7	4	9	7	9	4	4	4	6
South America, other .....	17	16	19	13	12	19	26	17	14	11
Europe, total .....	178	177	216	226	216	254	268	290	280	271
Belgium .....	7	6	6	3	6	7	5	3	5	4
England, United Kingdom .....	49	50	43	49	40	46	35	37	44	32
France .....	8	7	15	11	12	11	20	19	11	11
Germany .....	25	34	42	51	45	45	36	39	30	49
Europe, other .....	89	80	110	112	113	145	172	192	190	175
East Asia, total .....	241	323	442	1,425	1,791	1,420	920	823	553	409
Taiwan .....	72	92	82	89	89	59	91	64	40	39
China, People's Republic of .....	75	123	264	1,216	1,603	1,250	739	663	422	280
Hong Kong .....	9	18	10	13	10	9	11	10	6	7
Japan .....	15	15	18	25	17	21	21	22	26	32
Korea .....	55	58	48	57	53	57	44	51	46	37
Thailand .....	7	7	10	10	6	11	4	3	1	3
East Asia, other .....	8	10	10	15	13	13	10	10	12	11
West Asia, total .....	169	196	208	235	264	237	194	163	185	158
India .....	64	91	86	112	113	121	122	92	96	81
Iran .....	41	38	57	37	55	45	20	19	27	24
Iraq .....	3	6	2	2	2	4	0	1	0	0
Israel .....	14	10	16	35	21	17	15	15	14	9
Lebanon .....	6	2	5	7	8	3	4	2	2	4
Saudi Arabia .....	2	6	2	4	1	7	1	0	1	2
Turkey .....	6	10	12	9	12	11	6	13	11	13
West Asia, other .....	33	33	28	29	52	29	26	21	34	25
Pacific/Australasia, total .....	29	16	29	28	34	28	23	18	25	24
Australia .....	7	5	9	9	10	11	8	6	14	10
Indonesia .....	6	3	2	6	9	3	4	1	4	7
Pacific/Australasia, other .....	16	8	18	13	15	14	11	11	7	7
Africa, total .....	78	72	86	95	63	59	61	62	57	61
Egypt .....	9	6	6	8	3	7	7	4	3	6
Nigeria .....	26	28	27	31	22	12	6	13	15	9
Africa, other .....	43	38	53	56	38	40	48	45	39	46
Country unknown .....	43	23	32	18	29	59	73	43	25	15

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

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Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Temporary visas, S&E										
Total foreign citizenship .....	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
North America, total .....	399	397	386	428	370	411	358	433	432	514
Canada .....	222	228	214	217	196	206	196	212	226	238
Caribbean .....	35	28	23	33	34	24	26	40	32	35
Central America .....	35	44	38	55	35	43	27	37	27	50
Mexico .....	107	97	111	123	105	138	109	144	147	191
South America, total .....	325	320	331	344	308	390	318	361	371	384
Argentina .....	46	69	36	43	40	49	47	64	44	64
Brazil .....	111	112	140	141	126	193	138	141	147	116
Chile .....	48	42	45	38	29	31	21	17	22	37
Colombia .....	38	28	30	35	37	32	32	21	41	45
South America, other .....	82	69	80	87	76	85	80	118	117	122
Europe, total .....	761	740	846	875	970	948	938	1,118	1,124	1,155
Belgium .....	35	34	16	17	25	17	9	14	15	15
England, United Kingdom .....	80	79	107	72	83	67	50	81	90	63
France .....	55	67	74	80	68	52	50	51	64	63
Germany .....	93	85	119	134	155	119	136	162	145	168
Europe, other .....	498	475	530	572	639	693	693	810	810	846
East Asia, total .....	4,079	4,379	4,347	3,483	2,999	3,660	3,318	3,455	3,325	3,684
Taiwan .....	967	1,070	1,058	1,123	1,075	1,013	874	788	655	603
China, People's Republic of .....	1,693	1,883	1,875	889	582	1,324	1,334	1,568	1,652	1,979
Hong Kong .....	105	81	89	75	75	92	69	69	42	37
Japan .....	105	114	112	152	136	144	125	130	129	162
Korea .....	1,023	1,044	1,032	1,051	918	886	768	723	661	685
Thailand .....	85	78	66	86	103	105	83	107	127	143
East Asia, other .....	101	109	115	107	110	96	65	70	59	75
West Asia, total .....	1,383	1,551	1,544	1,702	1,798	1,752	1,599	1,491	1,310	1,325
India .....	644	713	791	892	1,039	1,059	1,023	947	754	713
Iran .....	144	118	103	109	89	73	75	53	46	40
Iraq .....	21	26	13	15	9	5	6	2	2	1
Israel .....	71	72	67	68	65	67	42	41	31	36
Lebanon .....	45	56	39	61	45	42	24	30	15	22
Saudi Arabia .....	65	69	42	69	67	64	60	39	45	50
Turkey .....	89	112	118	129	147	124	139	144	165	240
West Asia, other .....	304	385	371	359	337	318	230	235	252	223
Pacific/Australasia, total .....	182	197	192	191	188	200	166	167	125	148
Australia .....	26	31	37	43	51	29	38	40	28	31
Indonesia .....	60	73	72	70	67	66	54	53	39	50
Pacific/Australasia, other .....	96	93	83	78	70	105	74	74	58	67
Africa, total .....	397	415	374	460	332	359	252	257	249	264
Egypt .....	99	92	79	92	66	78	58	72	52	63
Nigeria .....	48	34	25	27	21	22	16	19	14	11
Africa, other .....	250	289	270	341	245	259	178	166	183	190
Country unknown .....	115	93	93	38	28	86	550	492	300	174

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

Page 8 of 9

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Temporary visas, engineering										
Total foreign citizenship .....	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
North America, total .....	67	60	66	76	59	81	67	75	90	105
Canada .....	40	38	33	30	32	39	37	27	41	42
Caribbean .....	3	3	2	10	4	3	8	10	7	5
Central America .....	3	4	8	8	4	6	1	6	3	6
Mexico .....	21	15	23	28	19	33	21	32	39	52
South America, total .....	74	73	89	98	81	108	80	90	85	100
Argentina .....	7	10	8	6	6	5	9	13	8	10
Brazil .....	32	29	45	47	44	62	41	45	37	35
Chile .....	8	9	5	7	7	8	1	1	4	8
Colombia .....	10	7	7	8	9	6	2	6	7	12
South America, other .....	17	18	24	30	15	27	27	25	29	35
Europe, total .....	167	169	202	208	229	178	163	225	219	226
Belgium .....	8	8	5	6	11	3	1	3	0	4
England, United Kingdom .....	11	9	14	7	11	6	8	6	7	7
France .....	15	22	28	27	21	20	8	17	19	15
Germany .....	8	13	20	18	29	10	21	25	33	34
Europe, other .....	125	117	135	150	157	139	125	174	160	166
East Asia, total .....	1,463	1,538	1,512	1,311	1,173	1,335	1,155	1,197	1,058	1,247
Taiwan .....	509	557	519	581	540	495	375	339	263	258
China, People's Republic of .....	452	469	455	230	207	424	421	486	472	612
Hong Kong .....	23	27	22	7	15	22	9	22	6	11
Japan .....	24	22	21	41	28	30	34	20	29	20
Korea .....	399	412	441	387	310	287	263	262	231	260
Thailand .....	19	19	17	33	34	40	38	46	49	57
East Asia, other .....	37	32	37	32	39	37	15	22	8	29
West Asia, total .....	650	719	738	768	842	831	786	709	558	586
India .....	313	348	392	419	517	540	521	475	330	327
Iran .....	81	66	52	64	56	37	43	24	23	22
Iraq .....	11	12	4	4	5	2	4	1	2	1
Israel .....	23	21	17	11	19	20	11	10	6	6
Lebanon .....	34	33	21	40	28	13	7	13	2	11
Saudi Arabia .....	26	30	17	25	22	31	30	17	22	16
Turkey .....	59	71	68	58	66	61	80	75	85	119
West Asia, other .....	103	138	167	147	129	127	90	94	88	84
Pacific/Australasia, total .....	40	41	37	38	35	34	39	39	18	38
Australia .....	5	7	5	7	7	4	7	4	4	3
Indonesia .....	16	22	25	21	22	15	18	21	12	23
Pacific/Australasia, other .....	19	12	7	10	6	15	14	14	2	12
Africa, total .....	130	115	107	140	94	119	83	86	74	85
Egypt .....	53	43	45	59	39	55	40	52	42	49
Nigeria .....	11	5	9	4	4	6	7	5	3	1
Africa, other .....	66	67	53	77	51	58	36	29	29	35
Country unknown .....	42	28	33	14	11	34	178	161	88	57

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering,  
by country of citizenship, visa type, and year of doctorate: 1991-2000**

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Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Temporary visas, sciences										
Total foreign citizenship .....	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
North America, total .....	332	337	320	352	311	330	291	358	342	409
Canada .....	182	190	181	187	164	167	159	185	185	196
Caribbean .....	32	25	21	23	30	21	18	30	25	30
Central America .....	32	40	30	47	31	37	26	31	24	44
Mexico .....	86	82	88	95	86	105	88	112	108	139
South America, total .....	251	247	242	246	227	282	238	271	286	284
Argentina .....	39	59	28	37	34	44	38	51	36	54
Brazil .....	79	83	95	94	82	131	97	96	110	81
Chile .....	40	33	40	31	22	23	20	16	18	29
Colombia .....	28	21	23	27	28	26	30	15	34	33
South America, other .....	65	51	56	57	61	58	53	93	88	87
Europe, total .....	594	571	644	667	741	770	775	893	905	929
Belgium .....	27	26	11	11	14	14	8	11	15	11
England, United Kingdom .....	69	70	93	65	72	61	42	75	83	56
France .....	40	45	46	53	47	32	42	34	45	48
Germany .....	85	72	99	116	126	109	115	137	112	134
Europe, other .....	373	358	395	422	482	554	568	636	650	680
East Asia, total .....	2,616	2,841	2,835	2,172	1,826	2,325	2,163	2,258	2,267	2,437
Taiwan .....	458	513	539	542	535	518	499	449	392	345
China, People's Republic of .....	1,241	1,414	1,420	659	375	900	913	1,082	1,180	1,367
Hong Kong .....	82	54	67	68	60	70	60	47	36	26
Japan .....	81	92	91	111	108	114	91	110	100	142
Korea .....	624	632	591	664	608	599	505	461	430	425
Thailand .....	66	59	49	53	69	65	45	61	78	86
East Asia, other .....	64	77	78	75	71	59	50	48	51	46
West Asia, total .....	733	832	806	934	956	921	813	782	752	739
India .....	331	365	399	473	522	519	502	472	424	386
Iran .....	63	52	51	45	33	36	32	29	23	18
Iraq .....	10	14	9	11	4	3	2	1	0	0
Israel .....	48	51	50	57	46	47	31	31	25	30
Lebanon .....	11	23	18	21	17	29	17	17	13	11
Saudi Arabia .....	39	39	25	44	45	33	30	22	23	34
Turkey .....	30	41	50	71	81	63	59	69	80	121
West Asia, other .....	201	247	204	212	208	191	140	141	164	139
Pacific/Australasia, total .....	142	156	155	153	153	166	127	128	107	110
Australia .....	21	24	32	36	44	25	31	36	24	28
Indonesia .....	44	51	47	49	45	51	36	32	27	27
Pacific/Australasia, other .....	77	81	76	68	64	90	60	60	56	55
Africa, total .....	267	300	267	320	238	240	169	171	175	179
Egypt .....	46	49	34	33	27	23	18	20	10	14
Nigeria .....	37	29	16	23	17	16	9	14	11	10
Africa, other .....	184	222	217	264	194	201	142	137	154	155
Country unknown .....	73	65	60	24	17	52	372	331	212	117

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

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**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Total, all institutions .....	-	25,979	5,330	726	558	1,544	864	1,638	3,411	1,392	1,990	29
Alabama, total .....	27	303	67	9	5	16	13	24	40	21	19	0
Auburn University .....	69	127	26	6	1	7	5	7	14	3	11	0
United States Sports Academy .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Alabama .....	121	59	17	3	3	5	3	3	10	3	7	0
University of Alabama Birmingham .....	103	79	8	0	1	0	1	6	7	6	1	0
University of Alabama Huntsville .....	184	29	16	0	0	4	4	8	9	9	0	0
University of South Alabama .....	273	9	0	0	0	0	0	0	0	0	0	0
Alaska, total .....	51	19	3	0	1	1	0	1	2	2	0	0
University of Alaska Fairbanks .....	228	19	3	0	1	1	0	1	2	2	0	0
Arizona, total .....	20	441	94	10	9	47	10	18	67	40	26	1
Arizona State University Main .....	51	164	55	4	6	30	6	9	19	10	9	0
Northern Arizona University .....	252	13	0	0	0	0	0	0	0	0	0	0
University of Arizona .....	22	264	39	6	3	17	4	9	48	30	17	1
Arkansas, total .....	43	75	7	0	0	4	3	0	14	3	8	3
U of Arkansas .....	150	44	7	0	0	4	3	0	11	3	8	0
U of Arkansas Little Rock .....	309	3	0	0	0	0	0	0	3	0	0	3
U of Arkansas for Med Sciences .....	190	28	0	0	0	0	0	0	0	0	0	0
California, total .....	1	3,321	728	55	84	258	121	210	418	170	242	6
Azusa Pacific University .....	340	0	0	0	0	0	0	0	0	0	0	0
Biola University .....	273	9	0	0	0	0	0	0	0	0	0	0
CA Inst Integral Studies .....	340	0	0	0	0	0	0	0	0	0	0	0
CA Inst Technology .....	69	127	46	4	3	20	5	14	41	17	24	0
CA Sch Prof Psych Berkeley .....	129	54	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Fresno .....	164	37	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Los Angeles .....	158	40	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych San Diego .....	120	62	0	0	0	0	0	0	0	0	0	0
Claremont Graduate University .....	154	42	0	0	0	0	0	0	0	0	0	0
Fielding Institute, The .....	110	71	0	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary CA .....	177	31	0	0	0	0	0	0	0	0	0	0
Graduate Theological Union .....	333	1	0	0	0	0	0	0	0	0	0	0
Loma Linda University .....	190	28	0	0	0	0	0	0	0	0	0	0
Loma Linda U La Sierra Campus .....	340	0	0	0	0	0	0	0	0	0	0	0
Naval Postgraduate School .....	273	9	3	0	0	2	0	1	1	1	0	0
Pacific Grad School of Psych .....	169	36	0	0	0	0	0	0	0	0	0	0
Pepperdine University Malibu .....	340	0	0	0	0	0	0	0	0	0	0	0
Rand Grad Sch of Policy Studies .....	288	6	0	0	0	0	0	0	0	0	0	0
San Diego State University .....	217	21	0	0	0	0	0	0	0	0	0	0
Santa Clara University .....	309	3	3	0	0	2	1	0	0	0	0	0
School of Theology at Claremont .....	340	0	0	0	0	0	0	0	0	0	0	0
Scripps Research Institute, The .....	244	15	0	0	0	0	0	0	8	0	8	0
Stanford University .....	4	448	181	14	10	63	30	64	52	28	23	1
United States International U .....	280	7	0	0	0	0	0	0	0	0	0	0
U of California Berkeley .....	1	523	139	11	27	27	44	30	85	31	51	3
U of California Davis .....	18	303	64	3	17	12	8	24	36	10	26	0
U of California Irvine .....	54	158	30	2	6	5	6	11	32	5	25	2
U of California Los Angeles .....	10	377	75	8	10	33	15	9	47	26	21	0
U of California Riverside .....	106	77	0	0	0	0	0	0	10	5	5	0
U of California San Diego .....	28	240	44	1	0	20	3	20	41	23	18	0
U of California San Francisco .....	119	64	2	0	0	0	0	2	8	0	8	0
U of California Santa Barbara .....	49	167	58	11	0	28	3	16	21	10	11	0
U of California Santa Cruz .....	109	73	4	0	0	4	0	0	13	9	4	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]  
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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Total, all institutions .....	757	1,048	861	6,798	5,855	943	3,623	4,151	15,389	41,368
Alabama, total .....	3	14	7	103	80	23	45	24	215	518
Auburn University .....	0	7	3	38	15	23	29	10	59	186
United States Sports Academy .....	0	0	0	0	0	0	29	0	0	13
University of Alabama .....	1	3	1	7	7	0	8	12	88	147
University of Alabama Birmingham .....	0	3	1	50	50	0	8	2	46	125
University of Alabama Huntsville .....	1	1	2	0	0	0	0	0	0	29
University of South Alabama .....	1	0	0	8	8	0	0	0	9	18
Alaska, total .....	6	0	0	6	4	2	0	2	1	20
University of Alaska Fairbanks .....	6	0	0	6	4	2	0	2	1	20
Arizona, total .....	32	15	12	103	82	21	40	78	297	738
Arizona State University Main .....	3	3	6	22	22	0	24	32	119	283
Northern Arizona University .....	0	0	0	8	5	3	0	5	39	52
University of Arizona .....	29	12	6	73	55	18	16	41	139	403
Arkansas, total .....	0	1	1	42	34	8	9	1	54	129
U of Arkansas .....	0	1	1	14	6	8	9	1	42	86
U of Arkansas Little Rock .....	0	0	0	0	0	0	0	0	11	14
U of Arkansas for Med Sciences .....	0	0	0	28	28	0	0	0	1	29
California, total .....	81	125	124	733	683	50	575	537	1,385	4,706
Azusa Pacific University .....	0	0	0	0	0	0	0	0	4	4
Biola University .....	0	0	0	0	0	0	9	0	11	20
CA Inst Integral Studies .....	0	0	0	0	0	0	0	0	1	1
CA Inst Technology .....	2	6	1	27	27	0	0	4	0	127
CA Sch Prof Psych Berkeley .....	0	0	0	0	0	0	54	0	1	55
CA Sch Prof Psych Fresno .....	0	0	0	0	0	0	37	0	0	37
CA Sch Prof Psych Los Angeles .....	0	0	0	0	0	0	40	0	1	41
CA Sch Prof Psych San Diego .....	0	0	0	0	0	0	62	0	0	62
Claremont Graduate University .....	0	4	2	1	1	0	14	21	53	95
Fielding Institute, The .....	0	0	0	0	0	0	68	3	50	121
Fuller Theological Seminary CA .....	0	0	0	0	0	0	30	1	25	56
Graduate Theological Union .....	0	0	0	0	0	0	0	1	20	21
Loma Linda University .....	0	0	0	19	19	0	9	0	11	39
Loma Linda U La Sierra Campus .....	0	0	0	0	0	0	0	0	2	2
Naval Postgraduate School .....	0	2	3	0	0	0	0	0	0	9
Pacific Grad School of Psych .....	0	0	0	0	0	0	36	0	0	36
Pepperdine University Malibu .....	0	0	0	0	0	0	0	0	34	34
Rand Grad Sch of Policy Studies .....	0	0	0	0	0	0	0	6	0	6
San Diego State University .....	0	0	0	7	7	0	10	4	9	30
Santa Clara University .....	0	0	0	0	0	0	0	0	0	3
School of Theology at Claremont .....	0	0	0	0	0	0	0	0	5	5
Scripps Research Institute, The .....	0	0	0	7	7	0	0	0	0	15
Stanford University .....	15	16	19	75	75	0	18	72	119	567
United States International U .....	0	0	0	0	0	0	7	0	3	10
U of California Berkeley .....	10	30	21	91	83	8	26	121	228	751
U of California Davis .....	9	8	6	141	113	28	7	32	53	356
U of California Irvine .....	4	2	14	38	38	0	12	26	43	201
U of California Los Angeles .....	7	24	22	101	100	1	28	73	227	604
U of California Riverside .....	2	5	1	38	26	12	10	11	38	115
U of California San Diego .....	18	14	5	65	65	0	9	44	38	278
U of California San Francisco .....	0	0	0	51	51	0	0	3	17	81
U of California Santa Barbara .....	2	8	7	15	15	0	20	36	63	230
U of California Santa Cruz .....	8	4	4	15	14	1	6	19	17	90

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
California, continued:												
University of La Verne .....	340	0	0	0	0	0	0	0	0	0	0	0
University of the Pacific .....	320	2	0	0	0	0	0	0	2	0	2	0
University of San Diego .....	340	0	0	0	0	0	0	0	0	0	0	0
University of San Francisco .....	291	5	0	0	0	0	0	0	0	0	0	0
University of Southern CA .....	26	259	79	1	11	42	6	19	21	5	16	0
Wright Institute, All Campuses .....	200	26	0	0	0	0	0	0	0	0	0	0
Colorado, total .....	17	498	119	13	25	27	12	42	76	35	41	0
Colorado School of Mines .....	151	43	25	8	0	0	0	17	7	3	4	0
Colorado State University .....	59	152	25	0	12	4	6	3	17	4	13	0
University of Colorado Boulder .....	37	202	61	5	12	19	6	19	49	28	21	0
University of Colorado at Colorado Springs .....	291	5	4	0	0	4	0	0	0	0	0	0
University of Colorado at Denver .....	246	14	1	0	1	0	0	0	0	0	0	0
University of Colorado Health Science Center .....	194	27	0	0	0	0	0	0	0	0	0	0
University of Denver .....	161	39	3	0	0	0	0	3	2	0	2	0
University of Northern Colorado .....	240	16	0	0	0	0	0	0	1	0	1	0
Connecticut, total .....	22	403	49	8	5	11	9	16	52	22	29	1
University of Connecticut .....	41	184	37	7	5	6	4	15	21	8	12	1
University of New Haven .....	340	0	0	0	0	0	0	0	0	0	0	0
Wesleyan University .....	252	13	0	0	0	0	0	0	4	1	3	0
Yale University .....	35	206	12	1	0	5	5	1	27	13	14	0
Delaware, total .....	38	121	36	18	3	4	7	4	14	4	10	0
University of Delaware .....	72	121	36	18	3	4	7	4	14	4	10	0
Wilmington College .....	340	0	0	0	0	0	0	0	0	0	0	0
District of Columbia, total .....	26	342	42	0	2	14	6	20	25	10	15	0
American University .....	154	42	0	0	0	0	0	0	6	3	3	0
Catholic University of America .....	194	27	6	0	0	2	3	1	5	2	3	0
Gallaudet University .....	297	4	0	0	0	0	0	0	0	0	0	0
George Washington University .....	71	126	31	0	2	9	3	17	1	1	0	0
Georgetown University .....	104	78	0	0	0	0	0	0	2	0	2	0
Howard University .....	115	65	5	0	0	3	0	2	11	4	7	0
Florida, total .....	9	810	168	12	21	41	29	65	81	31	50	0
Barry University .....	333	1	0	0	0	0	0	0	0	0	0	0
FL Agricultural and Mechanical U .....	280	7	1	0	0	0	0	1	0	0	0	0
Florida Atlantic University .....	222	20	11	0	0	7	2	2	1	1	0	0
Florida Institute of Technology .....	210	22	10	0	0	7	1	2	3	1	2	0
Florida International University .....	201	25	3	0	0	2	1	0	0	0	0	0
Florida State University .....	80	107	4	2	0	1	1	0	13	7	6	0
Nova Southeastern University .....	75	112	0	0	0	0	0	0	0	0	0	0
University of Central Florida .....	142	47	27	0	1	7	5	14	9	9	0	0
University of Florida .....	19	291	77	7	12	13	13	32	39	11	28	0
University of Miami .....	82	106	17	0	1	2	4	10	9	2	7	0
University of Sarasota .....	297	4	0	0	0	0	0	0	0	0	0	0
University of South Florida .....	113	68	18	3	7	2	2	4	7	0	7	0
Georgia, total .....	15	583	164	17	25	47	34	41	72	15	57	0
Clark Atlanta University .....	246	14	0	0	0	0	0	0	3	0	3	0
Emory University .....	88	94	0	0	0	0	0	0	15	3	12	0
Georgia Inst of Tech .....	31	223	159	15	25	47	34	38	22	5	17	0
Georgia Southern University .....	340	0	0	0	0	0	0	0	0	0	0	0
Georgia State University .....	129	54	0	0	0	0	0	0	6	3	3	0
Inst of Paper Science & Tech .....	309	3	2	2	0	0	0	0	0	0	0	0
Medical College of Georgia .....	267	10	0	0	0	0	0	0	0	0	0	0
University of Georgia .....	40	185	3	0	0	0	0	3	26	4	22	0
Hawaii, total .....	39	110	8	0	1	4	1	2	11	4	7	0
University of Hawaii at Manoa .....	76	110	8	0	1	4	1	2	11	4	7	0
Idaho, total .....	45	60	5	0	1	1	1	2	12	3	9	0
Idaho State University .....	267	10	1	0	0	0	0	1	1	1	0	0
University of Idaho .....	138	50	4	0	1	1	1	1	11	2	9	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
California, continued:										
University of La Verne .....	0	0	0	0	0	0	0	0	58	58
University of the Pacific .....	0	0	0	0	0	0	0	0	18	20
University of San Diego .....	0	0	0	0	0	0	0	0	13	13
University of San Francisco .....	0	0	0	0	0	0	5	0	71	76
University of Southern CA .....	4	2	19	42	42	0	32	60	152	411
Wright Institute, All Campuses .....	0	0	0	0	0	0	26	0	0	26
Colorado, total .....	37	18	19	114	91	23	51	64	229	727
Colorado School of Mines .....	10	0	0	0	0	0	0	1	0	43
Colorado State University .....	9	5	5	64	42	22	14	13	28	180
University of Colorado Boulder .....	16	7	11	17	16	1	8	33	65	267
University of Colorado at Colorado Springs .....	0	0	1	0	0	0	0	0	0	5
University of Colorado at Denver .....	1	5	0	0	0	0	0	7	11	25
University of Colorado Health Science Center .....	0	0	0	27	27	0	0	0	17	44
University of Denver .....	1	0	2	4	4	0	17	10	50	89
University of Northern Colorado .....	0	1	0	2	2	0	12	0	58	74
Connecticut, total .....	8	18	6	137	130	7	51	82	215	618
University of Connecticut .....	2	9	3	50	45	5	39	23	92	276
University of New Haven .....	0	0	0	0	0	0	0	0	3	3
Wesleyan University .....	0	0	0	8	8	0	0	1	1	14
Yale University .....	6	9	3	79	77	2	12	58	119	325
Delaware, total .....	11	3	5	12	10	2	9	31	63	184
University of Delaware .....	11	3	5	12	10	2	9	31	44	165
Wilmington College .....	0	0	0	0	0	0	0	0	19	19
District of Columbia, total .....	2	8	4	73	73	0	64	124	195	537
American University .....	1	0	0	1	1	0	5	29	10	52
Catholic University of America .....	0	0	0	1	1	0	10	5	56	83
Gallaudet University .....	0	0	0	0	0	0	4	0	2	6
George Washington University .....	0	6	4	30	30	0	21	33	70	196
Georgetown University .....	0	0	0	33	33	0	4	39	31	109
Howard University .....	1	2	0	8	8	0	20	18	26	91
Florida, total .....	30	23	53	156	112	44	198	101	1,054	1,864
Barry University .....	0	0	0	0	0	0	1	0	15	16
FL Agricultural and Mechanical U .....	0	0	0	6	6	0	0	0	1	8
Florida Atlantic University .....	0	0	0	0	0	0	5	3	22	42
Florida Institute of Technology .....	1	3	2	3	3	0	0	0	3	25
Florida International University .....	0	0	1	4	4	0	6	11	33	58
Florida State University .....	17	6	5	10	9	1	23	29	154	261
Nova Southeastern University .....	1	0	27	1	1	0	77	6	478	590
University of Central Florida .....	0	2	5	0	0	0	4	0	19	66
University of Florida .....	2	10	8	92	50	42	27	36	103	394
University of Miami .....	7	1	0	27	26	1	37	8	38	144
University of Sarasota .....	0	0	1	0	0	0	3	0	133	137
University of South Florida .....	2	1	4	13	13	0	15	8	55	123
Georgia, total .....	10	17	15	151	125	26	88	66	352	935
Clark Atlanta University .....	0	0	0	4	4	0	0	7	24	38
Emory University .....	0	3	0	53	53	0	10	13	63	157
Georgia Inst of Tech .....	7	7	13	8	8	0	7	0	7	230
Georgia Southern University .....	0	0	0	0	0	0	0	0	17	17
Georgia State University .....	0	1	2	6	6	0	21	18	71	125
Inst of Paper Science & Tech .....	0	0	0	1	0	1	0	0	0	3
Medical College of Georgia .....	0	0	0	10	10	0	0	0	3	13
University of Georgia .....	3	6	0	69	44	25	50	28	167	352
Hawaii, total .....	6	3	0	23	19	4	9	50	42	152
University of Hawaii at Manoa .....	6	3	0	23	19	4	9	50	42	152
Idaho, total .....	1	3	1	29	13	16	3	6	39	99
Idaho State University .....	0	0	0	5	5	0	1	2	10	20
University of Idaho .....	1	3	1	24	8	16	2	4	29	79

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Illinois, total .....	5	1,345	299	29	52	82	51	85	155	75	80	0
De Paul University .....	201	25	0	0	0	0	0	0	0	0	0	0
Finch U Hlth Sci/Chgo Med Sch .....	217	21	0	0	0	0	0	0	1	1	0	0
Illinois Institute Technology .....	107	76	37	11	8	11	4	3	6	4	2	0
Illinois State University .....	280	7	0	0	0	0	0	0	0	0	0	0
Inst for Clinical Social Work .....	340	0	0	0	0	0	0	0	0	0	0	0
Loyola University of Chicago .....	135	52	0	0	0	0	0	0	1	0	1	0
Lutheran Sch Theology at Chicago .....	340	0	0	0	0	0	0	0	0	0	0	0
Northern Illinois University .....	190	28	0	0	0	0	0	0	3	0	3	0
Northwestern University .....	22	264	91	8	11	21	15	36	31	8	23	0
Roosevelt University .....	340	0	0	0	0	0	0	0	0	0	0	0
Rush University .....	252	13	0	0	0	0	0	0	2	2	0	0
Southern Illinois U Carbondale .....	135	52	5	0	2	2	0	1	1	1	0	0
Southern Illinois U Edwardsville .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Chicago .....	27	248	0	0	0	0	0	0	44	26	18	0
U of Illinois Chicago .....	68	129	25	2	4	3	12	4	15	5	10	0
U of Illinois Urbana-Champaign .....	5	430	141	8	27	45	20	41	51	28	23	0
Indiana, total .....	11	702	149	19	24	39	31	36	125	36	85	4
Ball State University .....	246	14	0	0	0	0	0	0	0	0	0	0
Indiana State University .....	236	17	0	0	0	0	0	0	1	0	0	1
Indiana U Bloomington .....	36	203	0	0	0	0	0	0	34	8	24	2
Indiana U Purdue U Indianapolis .....	340	0	0	0	0	0	0	0	0	0	0	0
Purdue University .....	12	355	122	10	23	33	24	32	66	15	50	1
University of Notre Dame .....	74	113	27	9	1	6	7	4	24	13	11	0
Iowa, total .....	24	358	74	14	11	10	19	20	44	10	34	0
Drake University .....	340	0	0	0	0	0	0	0	0	0	0	0
Iowa State University .....	38	200	47	7	5	9	11	15	25	3	22	0
Maharishi U of Management .....	291	5	0	0	0	0	0	0	0	0	0	0
University of Iowa .....	58	153	27	7	6	1	8	5	19	7	12	0
University of Northern Iowa .....	340	0	0	0	0	0	0	0	0	0	0	0
Kansas, total .....	30	245	29	6	2	8	3	10	43	14	29	0
Kansas State University .....	89	92	9	4	0	1	1	3	14	7	7	0
University of Kansas .....	67	134	10	2	2	3	1	2	27	7	20	0
Wichita State University .....	228	19	10	0	0	4	1	5	2	0	2	0
Kentucky, total .....	33	211	33	10	2	8	4	9	18	3	15	0
Southern Baptist Theological Sem .....	340	0	0	0	0	0	0	0	0	0	0	0
Spalding University .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Kentucky .....	50	165	21	6	2	4	4	5	13	3	10	0
University of Louisville .....	143	46	12	4	0	4	0	4	5	0	5	0
Louisiana, total .....	25	356	60	9	14	15	3	19	45	13	31	1
Grambling State University .....	340	0	0	0	0	0	0	0	0	0	0	0
LA St U & A&M College .....	45	172	28	5	10	6	0	7	25	9	16	0
LA St U Medical Center .....	252	13	0	0	0	0	0	0	0	0	0	0
LA St U Shreveport .....	267	10	0	0	0	0	0	0	0	0	0	0
Louisiana Tech University .....	257	12	9	0	1	2	2	4	0	0	0	0
New Orleans Baptist Theol Sem .....	288	6	0	0	0	0	0	0	0	0	0	0
Southern U A&M Col Baton Rouge .....	340	0	0	0	0	0	0	0	0	0	0	0
Tulane University .....	97	83	12	4	0	2	1	5	9	4	5	0
University of New Orleans .....	164	37	7	0	3	1	0	3	11	0	10	1
Univ of Louisiana at Lafayette .....	222	20	4	0	0	4	0	0	0	0	0	0
Univ of Louisiana at Monroe .....	309	3	0	0	0	0	0	0	0	0	0	0
Maine, total .....	48	41	6	1	0	1	1	3	13	5	6	2
University of Maine .....	156	41	6	1	0	1	1	3	13	5	6	2

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]  
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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Illinois, total .....	17	74	60	302	274	28	201	237	816	2,161
De Paul University .....	0	0	6	0	0	0	19	0	6	31
Finch U Hlth Sci/Chgo Med Sch .....	0	0	0	10	10	0	10	0	0	23
Illinois Institute Technology .....	0	0	19	6	6	0	8	0	2	78
Illinois State University .....	0	0	0	4	4	0	3	0	36	43
Inst for Clinical Social Work .....	0	0	0	0	0	0	0	0	5	5
Loyola University of Chicago .....	0	0	0	20	20	0	25	6	111	163
Lutheran Sch Theology at Chicago .....	0	0	0	0	0	0	0	0	9	9
Northern Illinois University .....	1	2	0	5	5	0	10	7	76	104
Northwestern University .....	5	14	4	49	49	0	28	42	96	360
Roosevelt University .....	0	0	0	0	0	0	0	0	10	10
Rush University .....	0	0	0	11	11	0	0	0	9	22
Southern Illinois U Carbondale .....	1	3	0	13	12	1	17	12	67	119
Southern Illinois U Edwardsville .....	0	0	0	0	0	0	0	0	2	2
University of Chicago .....	8	23	1	47	47	0	20	105	143	391
U of Illinois Chicago .....	0	12	1	48	48	0	18	10	72	201
U of Illinois Urbana-Champaign .....	2	20	29	89	62	27	43	55	170	600
Indiana, total .....	17	25	23	161	134	27	77	125	467	1,169
Ball State University .....	0	0	0	1	1	0	11	2	38	52
Indiana State University .....	1	0	0	3	3	0	7	5	36	53
Indiana U Bloomington .....	9	11	11	53	52	1	21	64	237	440
Indiana U Purdue U Indianapolis .....	0	0	0	0	0	0	0	0	8	8
Purdue University .....	5	10	10	89	63	26	23	30	115	470
University of Notre Dame .....	2	4	2	15	15	0	15	24	33	146
Iowa, total .....	10	26	2	132	92	40	29	41	208	566
Drake University .....	0	0	0	0	0	0	0	0	1	1
Iowa State University .....	7	15	0	76	36	40	12	18	38	238
Maharishi U of Management .....	0	0	0	0	0	0	4	1	1	6
University of Iowa .....	3	11	2	56	56	0	13	22	161	314
University of Northern Iowa .....	0	0	0	0	0	0	0	0	7	7
Kansas, total .....	7	13	3	59	41	18	54	37	170	415
Kansas State University .....	1	9	1	34	16	18	10	14	40	132
University of Kansas .....	6	4	2	24	24	0	38	23	123	257
Wichita State University .....	0	0	0	1	1	0	6	0	7	26
Kentucky, total .....	2	11	2	76	63	13	31	38	139	350
Southern Baptist Theological Sem .....	0	0	0	0	0	0	0	0	13	13
Spalding University .....	0	0	0	0	0	0	0	0	11	11
University of Kentucky .....	2	11	2	59	46	13	26	31	84	249
University of Louisville .....	0	0	0	17	17	0	5	7	31	77
Louisiana, total .....	7	19	14	108	79	29	45	58	253	609
Grambling State University .....	0	0	0	0	0	0	0	0	15	15
LA St U & A&M College .....	5	6	6	47	18	29	23	32	103	275
LA St U Medical Center .....	0	0	0	13	13	0	0	0	10	23
LA St U Shreveport .....	0	0	0	10	10	0	0	0	0	10
Louisiana Tech University .....	0	1	0	0	0	0	1	1	11	23
New Orleans Baptist Theol Sem .....	0	0	0	0	0	0	6	0	22	28
Southern U A&M Col Baton Rouge .....	0	0	0	0	0	0	0	0	2	2
Tulane University .....	2	4	5	31	31	0	7	13	42	125
University of New Orleans .....	0	0	0	0	0	0	7	12	26	63
Univ of Louisiana at Lafayette .....	0	8	3	5	5	0	0	0	13	33
Univ of Louisiana at Monroe .....	0	0	0	2	2	0	1	0	9	12
Maine, total .....	2	0	2	13	9	4	3	2	8	49
University of Maine .....	2	0	2	13	9	4	3	2	8	49

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Maryland, total .....	13	635	139	16	15	46	13	49	72	36	36	0
Johns Hopkins University .....	32	221	45	4	7	10	2	22	21	7	14	0
Loyola College .....	291	5	0	0	0	0	0	0	0	0	0	0
Morgan State University .....	333	1	0	0	0	0	0	0	0	0	0	0
Peabody Inst of Johns Hopkins U .....	340	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U of Hlth Sci .....	257	12	0	0	0	0	0	0	0	0	0	0
U of Maryland Baltimore .....	158	40	0	0	0	0	0	0	2	0	2	0
U of Maryland Baltimore County .....	146	45	13	3	0	8	2	0	6	2	4	0
U of Maryland College Park .....	17	309	81	9	8	28	9	27	42	27	15	0
U of Maryland Eastern Shore .....	320	2	0	0	0	0	0	0	1	0	1	0
Massachusetts, total .....	4	1,452	318	64	13	108	41	92	230	119	110	1
American International College .....	320	2	0	0	0	0	0	0	0	0	0	0
Boston College .....	143	46	0	0	0	0	0	0	9	1	8	0
Boston University .....	61	150	20	0	0	9	1	10	19	13	6	0
Brandeis University .....	108	74	0	0	0	0	0	0	13	5	8	0
Clark University .....	207	23	0	0	0	0	0	0	4	1	3	0
Harvard University .....	16	322	8	0	1	1	0	6	57	32	25	0
MA Col Pharmacy & Allied Health .....	320	2	0	0	0	0	0	0	2	0	2	0
Massachusetts Institute of Tech .....	6	417	198	45	5	63	28	57	58	41	16	1
New England Conserv of Music .....	340	0	0	0	0	0	0	0	0	0	0	0
Northeastern University .....	121	59	20	0	0	13	2	5	11	4	7	0
Simmons College .....	340	0	0	0	0	0	0	0	0	0	0	0
Smith College .....	340	0	0	0	0	0	0	0	0	0	0	0
Springfield College .....	340	0	0	0	0	0	0	0	0	0	0	0
Tufts University .....	97	83	12	3	3	3	2	1	12	3	9	0
U of Massachusetts Amherst .....	41	184	37	11	3	10	5	8	32	10	22	0
U of Massachusetts Boston .....	217	21	0	0	0	0	0	0	0	0	0	0
U of Massachusetts Lowell .....	177	31	13	3	1	6	2	1	11	8	3	0
U of Massachusetts Worcester .....	217	21	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute .....	236	17	10	2	0	3	1	4	2	1	1	0
Michigan, total .....	8	993	265	23	20	74	78	70	131	47	84	0
Andrews University .....	280	7	0	0	0	0	0	0	0	0	0	0
Central Michigan University .....	280	7	0	0	0	0	0	0	0	0	0	0
Eastern Michigan University .....	340	0	0	0	0	0	0	0	0	0	0	0
Michigan State University .....	21	269	36	7	4	11	11	3	39	13	26	0
Michigan Technological U .....	171	35	16	4	1	0	10	1	8	3	5	0
Oakland University .....	280	7	4	0	0	0	0	4	0	0	0	0
University of Detroit Mercy .....	240	16	3	1	0	2	0	0	1	0	1	0
University of Michigan Ann Arbor .....	3	463	179	10	10	59	44	56	57	27	30	0
Wayne State University .....	59	152	26	1	5	2	12	6	25	3	22	0
Western Michigan University .....	164	37	1	0	0	0	1	0	1	1	0	0
Minnesota, total .....	18	456	92	31	6	19	11	25	61	24	37	0
Luther NW Theological Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
Mayo Sch Health-Related Sciences .....	228	19	0	0	0	0	0	0	0	0	0	0
U of Minnesota Twin Cities .....	7	400	91	31	6	19	11	24	61	24	37	0
University of St Thomas .....	340	0	0	0	0	0	0	0	0	0	0	0
Walden University .....	164	37	1	0	0	0	0	1	0	0	0	0
Mississippi, total .....	35	168	19	4	0	1	3	11	23	1	22	0
Delta State University .....	340	0	0	0	0	0	0	0	0	0	0	0
Jackson State University .....	297	4	0	0	0	0	0	0	0	0	0	0
Mississippi State University .....	102	80	13	1	0	0	2	10	4	0	4	0
Reformed Theological Sem .....	340	0	0	0	0	0	0	0	0	0	0	0
U of Mississippi .....	201	25	3	0	0	1	1	1	6	1	5	0
U of Mississippi Med Ctr .....	263	11	0	0	0	0	0	0	0	0	0	0
U of Southern Mississippi .....	140	48	3	3	0	0	0	0	13	0	13	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Maryland, total .....	22	30	24	187	184	3	56	105	319	954
Johns Hopkins University .....	6	11	7	92	92	0	2	37	111	332
Loyola College .....	0	0	0	0	0	0	5	0	1	6
Morgan State University .....	0	0	0	0	0	0	0	1	9	10
Peabody Inst of Johns Hopkins U .....	0	0	0	0	0	0	0	0	9	9
Uniformed Services U of Hlth Sci .....	0	0	0	9	9	0	3	0	3	15
U of Maryland Baltimore .....	0	0	0	38	38	0	0	0	33	73
U of Maryland Baltimore County .....	0	2	3	6	6	0	10	5	2	47
U of Maryland College Park .....	15	17	14	42	39	3	36	62	151	460
U of Maryland Eastern Shore .....	1	0	0	0	0	0	0	0	0	2
Massachusetts, total .....	37	48	53	361	347	14	96	309	652	2,104
American International College .....	0	0	0	0	0	0	2	0	3	5
Boston College .....	0	0	0	9	9	0	16	12	68	114
Boston University .....	1	4	3	48	48	0	16	39	111	261
Brandeis University .....	0	2	3	29	29	0	4	23	34	108
Clark University .....	0	0	0	4	4	0	7	8	7	30
Harvard University .....	6	13	1	110	110	0	11	116	225	547
MA Col Pharmacy & Allied Health .....	0	0	0	0	0	0	0	0	0	2
Massachusetts Institute of Tech .....	28	19	25	36	36	0	1	52	43	460
New England Conserv of Music .....	0	0	0	0	0	0	0	0	2	2
Northeastern University .....	0	6	0	12	12	0	1	9	7	66
Simmons College .....	0	0	0	0	0	0	0	0	5	5
Smith College .....	0	0	0	0	0	0	0	0	7	7
Springfield College .....	0	0	0	0	0	0	0	0	2	2
Tufts University .....	0	0	2	45	45	0	4	8	15	98
U of Massachusetts Amherst .....	0	3	11	43	29	14	22	36	92	276
U of Massachusetts Boston .....	2	0	0	2	2	0	12	5	10	31
U of Massachusetts Lowell .....	0	0	6	0	0	0	0	1	21	52
U of Massachusetts Worcester .....	0	0	0	21	21	0	0	0	0	21
Worcester Polytechnic Institute .....	0	1	2	2	2	0	0	0	0	17
Michigan, total .....	18	35	31	216	179	37	127	170	485	1,478
Andrews University .....	0	0	0	0	0	0	7	0	14	21
Central Michigan University .....	0	3	0	0	0	0	4	0	1	8
Eastern Michigan University .....	0	0	0	0	0	0	0	0	11	11
Michigan State University .....	2	8	7	92	62	30	25	60	160	429
Michigan Technological U .....	1	0	0	9	5	4	1	0	8	43
Oakland University .....	0	0	0	3	3	0	0	0	4	11
University of Detroit Mercy .....	0	0	0	0	0	0	12	0	0	16
University of Michigan Ann Arbor .....	15	19	19	71	68	3	36	67	190	653
Wayne State University .....	0	3	5	39	39	0	25	29	80	232
Western Michigan University .....	0	2	0	2	2	0	17	14	17	54
Minnesota, total .....	3	17	15	118	84	34	69	81	371	827
Luther NW Theological Seminary .....	0	0	0	0	0	0	0	0	4	4
Mayo Sch Health-Related Sciences .....	0	0	0	19	19	0	0	0	0	19
U of Minnesota Twin Cities .....	3	17	15	99	65	34	37	77	284	684
University of St Thomas .....	0	0	0	0	0	0	0	0	21	21
Walden University .....	0	0	0	0	0	0	32	4	62	99
Mississippi, total .....	4	9	5	61	31	30	36	11	183	351
Delta State University .....	0	0	0	0	0	0	0	0	2	2
Jackson State University .....	3	0	0	0	0	0	0	1	12	16
Mississippi State University .....	0	4	4	46	16	30	3	6	48	128
Reformed Theological Sem .....	0	0	0	0	0	0	0	0	5	5
U of Mississippi .....	0	1	0	0	0	0	11	4	55	80
U of Mississippi Med Ctr .....	0	0	0	11	11	0	0	0	1	12
U of Southern Mississippi .....	1	4	1	4	4	0	22	0	60	108

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Missouri, total .....	19	452	85	6	5	21	10	43	52	21	31	0
Concordia Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
St Louis University .....	139	49	0	0	0	0	0	0	1	1	0	0
University of Missouri Columbia .....	56	155	33	2	2	9	5	15	9	3	6	0
University of Missouri Kansas City .....	210	22	1	0	0	0	0	1	6	3	3	0
University of Missouri Rolla .....	146	45	25	2	1	4	4	14	13	6	7	0
University of Missouri St Louis .....	194	27	0	0	0	0	0	0	7	0	7	0
Washington University .....	57	154	26	2	2	8	1	13	16	8	8	0
Montana, total .....	47	42	2	0	2	0	0	0	9	2	7	0
Montana St University Bozeman .....	222	20	2	0	2	0	0	0	5	2	3	0
University of Montana .....	210	22	0	0	0	0	0	0	4	0	4	0
Nebraska, total .....	34	175	8	2	2	1	0	3	14	3	11	0
Creighton University .....	291	5	0	0	0	0	0	0	0	0	0	0
U of Nebraska at Lincoln .....	66	136	8	2	2	1	0	3	13	3	10	0
U of Nebraska at Omaha .....	280	7	0	0	0	0	0	0	0	0	0	0
U of Nebraska Medical Center .....	194	27	0	0	0	0	0	0	1	0	1	0
Nevada, total .....	41	77	8	0	0	4	2	2	13	4	9	0
University of Nevada-Las Vegas .....	257	12	4	0	0	3	1	0	0	0	0	0
University of Nevada-Reno .....	115	65	4	0	0	1	1	2	13	4	9	0
New Hampshire, total .....	44	72	4	0	0	0	1	3	16	5	9	2
Dartmouth College .....	164	37	3	0	0	0	0	3	9	3	5	1
University of New Hampshire .....	171	35	1	0	0	0	1	0	7	2	4	1
New Jersey, total .....	14	597	133	24	13	43	20	33	88	44	44	0
Drew University .....	297	4	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U .....	267	10	0	0	0	0	0	0	0	0	0	0
New Jersey Institute Technology .....	146	45	28	5	5	9	6	3	4	2	2	0
Princeton Theological Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
Princeton University .....	34	210	47	10	5	19	7	6	41	26	15	0
Rutgers St U NJ New Brunswick .....	29	233	47	7	3	10	6	21	30	13	17	0
Rutgers St U NJ Newark Campus .....	179	30	0	0	0	0	0	0	4	1	3	0
Seton Hall University .....	263	11	0	0	0	0	0	0	5	0	5	0
Stevens Institute of Technology .....	206	24	11	2	0	5	1	3	4	2	2	0
U of Medicine & Dentistry of NJ .....	179	30	0	0	0	0	0	0	0	0	0	0
New Mexico, total .....	37	158	39	8	3	15	5	8	28	20	8	0
New Mexico Inst Mining & Tech .....	263	11	7	6	0	0	0	1	2	2	0	0
New Mexico State University .....	124	57	14	1	3	4	4	2	16	12	4	0
U of New Mexico, All Campuses .....	93	90	18	1	0	11	1	5	10	6	4	0
New York, total .....	2	2,217	324	35	28	113	62	86	301	155	145	1
Adelphi University .....	169	36	0	0	0	0	0	0	0	0	0	0
Albany Medical College .....	309	3	0	0	0	0	0	0	0	0	0	0
Alfred University .....	263	11	5	0	0	0	0	5	0	0	0	0
Clarkson University .....	228	19	16	3	2	4	4	3	3	0	3	0
Columbia U in City of New York .....	20	274	32	4	1	13	3	11	51	24	27	0
Cornell U Endowed Colleges .....	13	354	78	9	8	32	6	23	50	31	19	0
Cornell U Medical Campus .....	179	30	0	0	0	0	0	0	0	0	0	0
CUNY Grad School & U Center .....	53	160	12	2	1	4	2	3	22	14	8	0
Fordham University .....	161	39	0	0	0	0	0	0	0	0	0	0
Hofstra University .....	175	33	0	0	0	0	0	0	0	0	0	0
Jewish Theological Sem America .....	340	0	0	0	0	0	0	0	0	0	0	0
Juilliard School .....	340	0	0	0	0	0	0	0	0	0	0	0
Long Island University Brooklyn .....	240	16	0	0	0	0	0	0	0	0	0	0
New School University .....	140	48	0	0	0	0	0	0	0	0	0	0
New York Medical College .....	246	14	0	0	0	0	0	0	0	0	0	0
New York University .....	44	176	2	0	1	0	1	0	12	3	9	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]  
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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Missouri, total .....	10	16	6	138	121	17	86	59	270	722
Concordia Seminary .....	0	0	0	0	0	0	0	0	2	2
St Louis University .....	3	1	0	13	13	0	25	6	68	117
University of Missouri Columbia .....	1	10	1	46	29	17	29	26	103	258
University of Missouri Kansas City .....	0	1	1	5	5	0	6	2	41	63
University of Missouri Rolla .....	4	0	1	2	2	0	0	0	0	45
University of Missouri St Louis .....	0	0	0	5	5	0	11	4	10	37
Washington University .....	2	4	3	67	67	0	15	21	46	200
Montana, total .....	0	1	0	24	17	7	4	2	23	65
Montana St University Bozeman .....	0	1	0	10	7	3	0	2	12	32
University of Montana .....	0	0	0	14	10	4	4	0	11	33
Nebraska, total .....	4	8	4	75	46	29	26	36	122	297
Creighton University .....	0	0	0	5	5	0	0	0	0	5
U of Nebraska at Lincoln .....	4	8	4	44	15	29	26	29	115	251
U of Nebraska at Omaha .....	0	0	0	0	0	0	0	7	1	8
U of Nebraska Medical Center .....	0	0	0	26	26	0	0	0	6	33
Nevada, total .....	11	0	0	21	21	0	15	9	38	115
University of Nevada-Las Vegas .....	0	0	0	2	2	0	0	6	19	31
University of Nevada-Reno .....	11	0	0	19	19	0	15	3	19	84
New Hampshire, total .....	4	9	2	29	28	1	5	3	15	87
Dartmouth College .....	2	4	1	16	16	0	2	0	1	38
University of New Hampshire .....	2	5	1	13	12	1	3	3	14	49
New Jersey, total .....	13	36	33	149	132	17	38	107	286	883
Drew University .....	0	0	0	0	0	0	1	3	21	25
Fairleigh Dickinson U .....	0	0	0	0	0	0	10	0	0	10
New Jersey Institute Technology .....	1	4	8	0	0	0	0	0	0	45
Princeton Theological Seminary .....	0	0	0	0	0	0	0	0	20	20
Princeton University .....	5	13	3	41	41	0	6	54	71	281
Rutgers St U NJ New Brunswick .....	7	15	13	69	52	17	13	39	108	341
Rutgers St U NJ Newark Campus .....	0	3	2	9	9	0	1	11	27	57
Seton Hall University .....	0	0	0	0	0	0	6	0	38	49
Stevens Institute of Technology .....	0	1	7	0	0	0	1	0	1	25
U of Medicine & Dentistry of NJ .....	0	0	0	30	30	0	0	0	0	30
New Mexico, total .....	5	4	3	35	19	16	19	25	114	272
New Mexico Inst Mining & Tech .....	2	0	0	0	0	0	0	0	0	11
New Mexico State University .....	0	1	1	18	2	16	7	0	21	78
U of New Mexico, All Campuses .....	3	3	2	17	17	0	12	25	93	183
New York, total .....	59	98	73	552	504	48	362	448	1,281	3,498
Adelphi University .....	0	2	0	0	0	0	34	0	4	40
Albany Medical College .....	0	0	0	3	3	0	0	0	0	3
Alfred University .....	0	0	0	0	0	0	6	0	3	14
Clarkson University .....	0	0	0	0	0	0	0	0	0	19
Columbia U in City of New York .....	16	18	2	57	57	0	29	69	183	457
Cornell U Endowed Colleges .....	9	15	6	115	75	40	7	74	95	449
Cornell U Medical Campus .....	0	0	0	30	30	0	0	0	0	30
CUNY Grad School & U Center .....	4	10	8	29	29	0	39	36	108	268
Fordham University .....	0	0	0	1	1	0	22	16	56	95
Hofstra University .....	0	0	0	0	0	0	33	0	11	44
Jewish Theological Sem America .....	0	0	0	0	0	0	0	0	6	6
Juilliard School .....	0	0	0	0	0	0	0	0	8	8
Long Island University Brooklyn .....	0	0	0	0	0	0	16	0	0	16
New School University .....	0	0	0	0	0	0	18	30	4	52
New York Medical College .....	0	0	0	14	14	0	0	0	0	14
New York University .....	1	23	12	50	50	0	27	49	214	390

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
New York, continued:												
Pace University New York Campus .....	333	1	0	0	0	0	0	0	0	0	0	0
Polytechnic University .....	174	34	25	6	6	10	2	1	2	0	2	0
Rensselaer Polytechnic Institute .....	97	83	57	5	4	13	15	20	14	7	7	0
Rockefeller University .....	228	19	0	0	0	0	0	0	1	1	0	0
St John's U (Jamaica, NY) .....	184	29	0	0	0	0	0	0	2	0	2	0
SUNY at Albany .....	83	105	1	0	0	0	0	1	16	15	1	0
SUNY at Binghamton .....	127	55	4	0	0	2	0	2	5	0	5	0
SUNY at Buffalo .....	47	171	35	3	4	10	13	5	24	8	16	0
SUNY at Stony Brook .....	43	183	21	0	0	8	7	6	42	19	23	0
SUNY Col Environ Sci & Forestry .....	236	17	1	0	0	0	0	1	3	0	3	0
SUNY Health Sci Ctr Brooklyn .....	257	12	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Syracuse .....	257	12	0	0	0	0	0	0	0	0	0	0
Syracuse University .....	91	91	13	0	1	6	4	2	13	6	7	0
Teachers College Columbia U .....	340	0	0	0	0	0	0	0	0	0	0	0
Union College .....	320	2	1	0	0	0	0	1	0	0	0	0
Union Theological Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Rochester .....	63	138	20	3	0	10	5	2	40	27	13	0
Yeshiva University .....	135	52	1	0	0	1	0	0	1	0	0	1
North Carolina, total .....	10	715	128	8	12	32	19	57	85	28	55	2
Duke University .....	47	171	34	0	3	8	8	15	19	8	11	0
East Carolina University .....	280	7	0	0	0	0	0	0	0	0	0	0
North Carolina A&T State U .....	333	1	1	0	0	1	0	0	0	0	0	0
North Carolina State U Raleigh .....	25	262	79	8	5	23	9	34	27	10	15	2
U of North Carolina Chapel Hill .....	30	224	11	0	4	0	0	7	29	6	23	0
U of North Carolina Charlotte .....	320	2	2	0	0	0	2	0	0	0	0	0
U of North Carolina Greensboro .....	222	20	0	0	0	0	0	0	0	0	0	0
Wake Forest University .....	190	28	1	0	0	0	0	1	10	4	6	0
North Dakota, total .....	48	41	2	0	0	1	0	1	10	4	6	0
North Dakota State University .....	228	19	2	0	0	1	0	1	4	1	3	0
University of North Dakota .....	210	22	0	0	0	0	0	0	6	3	3	0
Ohio, total .....	7	1,057	265	47	10	64	37	107	167	65	100	2
Air Force Institute Technology .....	267	10	7	0	0	2	1	4	1	1	0	0
Bowling Green State University .....	143	46	0	0	0	0	0	0	4	1	2	1
Case Western Reserve University .....	63	138	46	14	0	9	2	21	16	6	10	0
Cleveland State University .....	228	19	9	0	2	1	1	5	5	0	5	0
Hebrew Union Col-Jewish Inst Rel .....	340	0	0	0	0	0	0	0	0	0	0	0
Kent State University Geauga .....	114	66	0	0	0	0	0	0	11	9	2	0
Medical College of Ohio .....	210	22	0	0	0	0	0	0	0	0	0	0
Miami University Oxford Campus .....	184	29	0	0	0	0	0	0	8	0	8	0
Ohio State University .....	11	367	79	7	3	18	17	34	46	21	24	1
Ohio University .....	146	45	14	4	1	7	1	1	7	5	2	0
University of Akron .....	91	91	30	17	1	3	5	4	34	8	26	0
University of Cincinnati .....	62	139	50	2	3	13	3	29	23	7	16	0
University of Dayton .....	207	23	19	0	0	9	5	5	4	4	0	0
University of Toledo .....	158	40	9	3	0	1	2	3	8	3	5	0
Wright State University .....	210	22	2	0	0	1	0	1	0	0	0	0
Youngstown State University .....	340	0	0	0	0	0	0	0	0	0	0	0
Oklahoma, total .....	31	236	33	13	3	5	6	6	26	11	15	0
Oklahoma State University .....	76	110	14	4	2	3	5	0	12	4	8	0
University of Oklahoma Norman .....	84	104	13	3	1	2	1	6	14	7	7	0
University of Tulsa .....	210	22	6	6	0	0	0	0	0	0	0	0
Oregon, total .....	29	257	29	0	5	16	2	6	36	17	19	0
Oregon Grad Inst Science & Tech .....	236	17	14	0	2	10	0	2	1	0	1	0
Oregon Health Sciences U .....	179	30	0	0	0	0	0	0	0	0	0	0
Oregon State University .....	73	120	12	0	3	4	2	3	16	7	9	0
Portland State University .....	228	19	3	0	0	2	0	1	2	1	1	0
University of Oregon .....	110	71	0	0	0	0	0	0	17	9	8	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]  
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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
New York, continued:										
Pace University New York Campus .....	0	0	1	0	0	0	0	0	4	5
Polytechnic University .....	0	2	5	0	0	0	0	0	0	34
Rensselaer Polytechnic Institute .....	2	1	1	3	3	0	1	4	9	92
Rockefeller University .....	0	0	0	18	18	0	0	0	0	19
St John's U (Jamaica, NY) .....	0	0	0	7	7	0	19	1	21	50
SUNY at Albany .....	8	2	9	9	9	0	31	29	54	159
SUNY at Binghamton .....	2	4	4	5	5	0	9	22	45	100
SUNY at Buffalo .....	0	3	5	50	50	0	23	31	131	302
SUNY at Stony Brook .....	10	12	2	49	49	0	22	25	58	241
SUNY Col Environ Sci & Forestry .....	3	0	0	10	3	7	0	0	0	17
SUNY Health Sci Ctr Brooklyn .....	0	0	0	12	12	0	0	0	1	13
SUNY Health Sci Ctr Syracuse .....	0	0	0	12	12	0	0	0	0	12
Syracuse University .....	1	1	13	1	1	0	11	38	51	142
Teachers College Columbia U .....	0	0	0	0	0	0	0	0	124	124
Union College .....	0	0	0	0	0	0	0	1	0	2
Union Theological Seminary .....	0	0	0	0	0	0	0	0	10	10
University of Rochester .....	3	5	5	38	37	1	4	23	73	211
Yeshiva University .....	0	0	0	39	39	0	11	0	8	60
North Carolina, total .....	24	34	15	250	217	33	52	127	384	1,099
Duke University .....	1	7	3	60	59	1	9	38	59	230
East Carolina University .....	0	0	0	7	7	0	0	0	0	10
North Carolina A&T State U .....	0	0	0	0	0	0	0	0	0	1
North Carolina State U Raleigh .....	9	19	3	90	58	32	7	28	52	314
U of North Carolina Chapel Hill .....	14	8	9	72	72	0	21	60	200	424
U of North Carolina Charlotte .....	0	0	0	0	0	0	0	0	2	4
U of North Carolina Greensboro .....	0	0	0	4	4	0	15	1	68	88
Wake Forest University .....	0	0	0	17	17	0	0	0	0	28
North Dakota, total .....	0	3	0	14	8	6	12	0	17	58
North Dakota State University .....	0	3	0	10	4	6	0	0	0	19
University of North Dakota .....	0	0	0	4	4	0	12	0	17	39
Ohio, total .....	17	30	18	267	248	19	174	119	738	1,795
Air Force Institute Technology .....	0	1	1	0	0	0	0	0	0	10
Bowling Green State University .....	0	5	0	3	3	0	22	12	47	93
Case Western Reserve University .....	1	1	2	55	54	1	8	9	55	193
Cleveland State University .....	0	0	1	4	4	0	0	0	20	39
Hebrew Union Col-Jewish Inst Rel .....	0	0	0	0	0	0	0	0	5	5
Kent State University Geauga .....	3	2	1	12	12	0	29	8	65	131
Medical College of Ohio .....	0	0	0	22	22	0	0	0	2	24
Miami University Oxford Campus .....	0	0	0	11	11	0	7	3	21	50
Ohio State University .....	12	15	10	100	82	18	39	66	242	609
Ohio University .....	0	2	0	5	5	0	16	1	75	120
University of Akron .....	0	0	0	3	3	0	17	7	23	114
University of Cincinnati .....	1	1	2	39	39	0	10	13	101	240
University of Dayton .....	0	0	0	0	0	0	0	0	8	31
University of Toledo .....	0	3	1	9	9	0	10	0	68	108
Wright State University .....	0	0	0	4	4	0	16	0	0	22
Youngstown State University .....	0	0	0	0	0	0	0	0	6	6
Oklahoma, total .....	24	6	7	56	42	14	50	34	146	382
Oklahoma State University .....	10	2	2	33	19	14	20	17	76	186
University of Oklahoma Norman .....	12	4	4	23	23	0	17	17	66	170
University of Tulsa .....	2	0	1	0	0	0	13	0	4	26
Oregon, total .....	22	17	4	104	75	29	17	28	125	382
Oregon Grad Inst Science & Tech .....	0	0	1	1	1	0	0	0	0	17
Oregon Health Sciences U .....	0	0	0	30	30	0	0	0	7	37
Oregon State University .....	15	10	1	57	28	29	3	6	39	159
Portland State University .....	1	1	0	3	3	0	3	6	12	31
University of Oregon .....	6	6	2	13	13	0	11	16	67	138

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Pennsylvania, total .....	6	1,240	316	55	29	81	49	102	145	55	88	2
Allegheny Univ of the Hlth Sci .....	184	29	0	0	0	0	0	0	0	0	0	0
Bryn Mawr College .....	257	12	0	0	0	0	0	0	0	0	0	0
Carnegie Mellon University .....	63	138	82	16	4	35	6	21	14	3	10	1
Drexel University .....	194	27	17	1	1	5	3	7	1	0	1	0
Duquesne University .....	184	29	0	0	0	0	0	0	4	0	4	0
Indiana University of PA .....	222	20	0	0	0	0	0	0	0	0	0	0
Lehigh University .....	100	81	43	8	6	11	12	6	10	7	3	0
Pennsylvania State U .....	14	341	110	8	14	19	23	46	32	20	11	1
Philadelphia Col Pharmacy & Sci .....	288	6	0	0	0	0	0	0	4	0	4	0
Temple University .....	85	102	1	0	0	1	0	0	11	3	8	0
Thomas Jefferson University .....	240	16	0	0	0	0	0	0	1	0	1	0
University of Pennsylvania .....	22	264	33	11	0	5	3	14	39	11	28	0
University of Pittsburgh .....	45	172	30	11	4	5	2	8	27	11	16	0
Villanova University .....	309	3	0	0	0	0	0	0	2	0	2	0
Westminster Theological Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
Widener U Pennsylvania Campus .....	340	0	0	0	0	0	0	0	0	0	0	0
Rhode Island, total .....	36	167	23	3	2	8	7	3	32	14	18	0
Brown University .....	86	101	11	1	0	4	4	2	19	8	11	0
Providence College .....	340	0	0	0	0	0	0	0	0	0	0	0
Salve Regina University .....	333	1	0	0	0	0	0	0	0	0	0	0
University of Rhode Island .....	115	65	12	2	2	4	3	1	13	6	7	0
South Carolina, total .....	32	217	44	9	5	11	9	10	22	9	13	0
Clemson University .....	95	84	31	1	4	9	7	10	11	4	7	0
Medical U South Carolina .....	207	23	0	0	0	0	0	0	3	0	3	0
South Carolina State University .....	340	0	0	0	0	0	0	0	0	0	0	0
U of South Carolina at Columbia .....	76	110	13	8	1	2	2	0	8	5	3	0
South Dakota, total .....	50	32	4	0	1	0	0	3	1	0	1	0
South Dakota Sch of Mines & Tech .....	297	4	4	0	1	0	0	3	0	0	0	0
South Dakota State University .....	246	14	0	0	0	0	0	0	1	0	1	0
University of South Dakota .....	246	14	0	0	0	0	0	0	0	0	0	0
Tennessee, total .....	23	375	64	10	8	17	8	21	50	17	33	0
East Tennessee State University .....	309	3	0	0	0	0	0	0	0	0	0	0
Meharry Medical College .....	252	13	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theol Sem .....	340	0	0	0	0	0	0	0	0	0	0	0
Middle Tennessee State U .....	320	2	0	0	0	0	0	0	2	0	2	0
Tennessee State University .....	320	2	0	0	0	0	0	0	0	0	0	0
Tennessee Technological U .....	297	4	4	1	0	1	2	0	0	0	0	0
University of Memphis .....	129	54	11	0	0	3	2	6	5	0	5	0
University of Tennessee Knoxville .....	51	164	30	9	4	1	4	12	30	10	20	0
University of Tennessee Memphis .....	201	25	0	0	0	0	0	0	2	0	2	0
Vanderbilt University .....	79	108	19	0	4	12	0	3	11	7	4	0
Texas, total .....	3	1,572	397	78	47	118	55	99	186	73	113	0
Baylor College of Medicine .....	134	53	0	0	0	0	0	0	0	0	0	0
Baylor University .....	273	9	0	0	0	0	0	0	2	0	2	0
Dallas Theological Seminary .....	340	0	0	0	0	0	0	0	0	0	0	0
Lamar University .....	340	0	0	0	0	0	0	0	0	0	0	0
Rice University .....	87	95	30	9	0	7	8	6	17	6	11	0
Sam Houston State University .....	309	3	0	0	0	0	0	0	0	0	0	0
Southern Methodist University .....	176	32	8	0	0	4	1	3	1	1	0	0
Southwestern Baptist Theol Sem .....	297	4	0	0	0	0	0	0	0	0	0	0
St Mary's University .....	320	2	0	0	0	0	0	0	0	0	0	0
Stephen F Austin State U .....	320	2	0	0	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Pennsylvania, total .....	22	57	46	280	265	15	195	179	857	2,097
Allegheny Univ of the Hlth Sci .....	0	0	0	11	11	0	18	0	0	29
Bryn Mawr College .....	0	0	0	0	0	0	9	3	9	21
Carnegie Mellon University .....	0	8	14	9	9	0	8	3	20	158
Drexel University .....	1	1	1	3	3	0	3	0	8	35
Duquesne University .....	0	1	0	0	0	0	24	0	19	48
Indiana University of PA .....	0	0	0	0	0	0	11	9	57	77
Lehigh University .....	3	4	3	6	6	0	10	2	19	100
Pennsylvania State U .....	10	18	5	86	71	15	35	45	200	541
Philadelphia Col Pharmacy & Sci .....	0	0	0	2	2	0	0	0	1	7
Temple University .....	0	6	1	26	26	0	40	17	168	270
Thomas Jefferson University .....	0	0	0	15	15	0	0	0	0	16
University of Pennsylvania .....	4	8	6	84	84	0	19	71	161	425
University of Pittsburgh .....	4	11	16	37	37	0	18	29	145	317
Villanova University .....	0	0	0	1	1	0	0	0	0	3
Westminster Theological Seminary .....	0	0	0	0	0	0	0	0	9	9
Widener U Pennsylvania Campus .....	0	0	0	0	0	0	0	0	41	41
Rhode Island, total .....	18	15	5	23	22	1	17	34	75	242
Brown University .....	6	11	4	17	17	0	3	30	48	149
Providence College .....	0	0	0	0	0	0	0	0	1	1
Salve Regina University .....	0	0	0	0	0	0	0	1	5	6
University of Rhode Island .....	12	4	1	6	5	1	14	3	21	86
South Carolina, total .....	9	10	4	70	58	12	24	34	184	401
Clemson University .....	1	4	0	29	17	12	2	6	25	109
Medical U South Carolina .....	0	0	0	20	20	0	0	0	4	27
South Carolina State University .....	0	0	0	0	0	0	0	0	22	22
U of South Carolina at Columbia .....	8	6	4	21	21	0	22	28	133	243
South Dakota, total .....	1	0	0	12	10	2	8	6	47	79
South Dakota Sch of Mines & Tech .....	0	0	0	0	0	0	0	0	0	4
South Dakota State University .....	1	0	0	6	4	2	0	6	0	14
University of South Dakota .....	0	0	0	6	6	0	8	0	47	61
Tennessee, total .....	4	16	9	119	112	7	73	40	306	681
East Tennessee State University .....	0	0	0	3	3	0	0	0	25	28
Meharry Medical College .....	0	0	0	13	13	0	0	0	0	13
Mid-America Baptist Theol Sem .....	0	0	0	0	0	0	0	0	4	4
Middle Tennessee State U .....	0	0	0	0	0	0	0	0	5	7
Tennessee State University .....	0	0	0	0	0	0	2	0	29	31
Tennessee Technological U .....	0	0	0	0	0	0	0	0	0	4
University of Memphis .....	1	4	3	3	3	0	27	0	55	109
University of Tennessee Knoxville .....	2	7	3	36	29	7	30	26	102	266
University of Tennessee Memphis .....	1	0	0	22	22	0	0	0	4	29
Vanderbilt University .....	0	5	3	42	42	0	14	14	82	190
Texas, total .....	56	56	64	440	387	53	190	183	960	2,532
Baylor College of Medicine .....	0	0	0	53	53	0	0	0	1	54
Baylor University .....	1	2	0	3	3	0	0	1	37	46
Dallas Theological Seminary .....	0	0	0	0	0	0	0	0	11	11
Lamar University .....	0	0	0	0	0	0	0	0	1	1
Rice University .....	5	11	6	12	12	0	5	9	16	111
Sam Houston State University .....	0	0	0	0	0	0	0	3	0	3
Southern Methodist University .....	2	3	5	0	0	0	5	8	5	37
Southwestern Baptist Theol Sem .....	0	0	0	0	0	0	4	0	50	54
St Mary's University .....	0	0	0	0	0	0	2	0	1	3
Stephen F Austin State U .....	0	0	0	2	0	2	0	0	0	2

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Texas, continued:												
Texas A&M University .....	9	385	135	34	20	26	21	34	38	10	28	0
Texas A&M University Commerce .....	297	4	0	0	0	0	0	0	0	0	0	0
Texas A&M University Kingsville .....	340	0	0	0	0	0	0	0	0	0	0	0
Texas Christian University .....	277	8	0	0	0	0	0	0	2	1	1	0
Texas Southern University .....	340	0	0	0	0	0	0	0	0	0	0	0
Texas Tech University .....	104	78	18	4	1	4	3	6	4	1	3	0
Texas Woman's University .....	201	25	0	0	0	0	0	0	0	0	0	0
University of Dallas .....	297	4	0	0	0	0	0	0	0	0	0	0
University of Houston .....	80	107	31	7	3	8	2	11	25	6	19	0
U North TX .....	112	70	0	0	0	0	0	0	11	6	5	0
U North TX Hlth Sci Ctr Ft Worth .....	297	4	0	0	0	0	0	0	0	0	0	0
U Texas at Arlington .....	129	54	25	0	1	11	3	10	10	2	8	0
U Texas at Austin .....	8	391	131	24	20	48	17	22	60	29	31	0
U Texas at Dallas .....	126	56	9	0	0	9	0	0	12	7	5	0
U Texas at El Paso .....	244	15	9	0	2	1	0	6	0	0	0	0
U Texas Hlth Sci Ctr .....	115	65	1	0	0	0	0	1	1	1	0	0
U Texas Hlth Sci Ctr San Antonio .....	217	21	0	0	0	0	0	0	3	3	0	0
U Texas Med Branch Galveston .....	179	30	0	0	0	0	0	0	0	0	0	0
U Texas SW Med Ctr Dallas .....	127	55	0	0	0	0	0	0	0	0	0	0
Utah, total .....	28	272	59	15	8	6	3	27	40	9	31	0
Brigham Young University .....	124	57	8	6	1	1	0	0	8	2	6	0
University of Utah .....	55	156	43	9	3	3	3	25	28	6	22	0
Utah State University .....	121	59	8	0	4	2	0	2	4	1	3	0
Vermont, total .....	49	39	3	0	2	0	1	0	6	0	6	0
Middlebury College .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Vermont .....	161	39	3	0	2	0	1	0	6	0	6	0
Virginia, total .....	12	666	164	19	15	43	22	65	68	29	39	0
College of William and Mary .....	171	35	2	0	0	0	0	2	10	9	1	0
George Mason University .....	95	84	9	0	0	5	0	4	1	1	0	0
Hampton University .....	291	5	0	0	0	0	0	0	5	5	0	0
Old Dominion University .....	151	43	14	0	0	3	4	7	4	4	0	0
Regent University .....	340	0	0	0	0	0	0	0	0	0	0	0
Union Theol Seminary (PSCE) .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Virginia .....	39	199	51	11	3	13	3	21	21	8	13	0
Virginia Commonwealth University .....	94	86	2	0	0	0	0	2	10	0	10	0
Virginia Polytechnic Inst & St U .....	33	214	86	8	12	22	15	29	17	2	15	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Texas, continued:										
Texas A&M University .....	18	15	14	110	72	38	21	34	122	507
Texas A&M University Commerce .....	0	0	0	0	0	0	4	0	41	45
Texas A&M University Kingsville .....	0	0	0	0	0	0	0	0	14	14
Texas Christian University .....	0	0	0	0	0	0	6	0	12	20
Texas Southern University .....	0	0	0	0	0	0	0	0	20	20
Texas Tech University .....	2	0	1	24	13	11	21	8	63	141
Texas Woman's University .....	0	0	0	7	6	1	13	5	67	92
University of Dallas .....	0	0	0	0	0	0	0	4	1	5
University of Houston .....	0	2	1	13	13	0	20	15	68	175
U North TX .....	1	5	15	6	6	0	22	10	90	160
U North TX Hlth Sci Ctr Ft Worth .....	0	0	0	4	4	0	0	0	2	6
U Texas at Arlington .....	0	4	3	3	3	0	0	9	24	78
U Texas at Austin .....	20	11	16	39	38	1	45	69	265	656
U Texas at Dallas .....	3	2	2	9	9	0	12	7	15	71
U Texas at El Paso .....	3	0	1	0	0	0	2	0	5	20
U Texas Hlth Sci Ctr .....	1	1	0	59	59	0	1	1	22	87
U Texas Hlth Sci Ctr San Antonio .....	0	0	0	18	18	0	0	0	3	24
U Texas Med Branch Galveston .....	0	0	0	30	30	0	0	0	4	34
U Texas SW Med Ctr Dallas .....	0	0	0	48	48	0	7	0	0	55
Utah, total .....	3	10	8	76	66	10	46	30	76	348
Brigham Young University .....	0	2	2	4	4	0	24	9	14	71
University of Utah .....	2	7	6	41	41	0	12	17	50	206
Utah State University .....	1	1	0	31	21	10	10	4	12	71
Vermont, total .....	0	2	0	16	16	0	12	0	26	65
Middlebury College .....	0	0	0	0	0	0	0	0	7	7
University of Vermont .....	0	2	0	16	16	0	12	0	19	58
Virginia, total .....	28	27	41	144	122	22	86	108	371	1,037
College of William and Mary .....	9	0	7	4	3	1	0	3	24	59
George Mason University .....	3	2	23	4	4	0	17	25	49	133
Hampton University .....	0	0	0	0	0	0	0	0	0	5
Old Dominion University .....	7	1	3	8	8	0	2	4	19	62
Regent University .....	0	0	0	0	0	0	0	0	7	7
Union Theol Seminary (PSCE) .....	0	0	0	0	0	0	0	0	10	10
University of Virginia .....	5	10	6	44	44	0	25	37	142	341
Virginia Commonwealth University .....	0	0	0	37	37	0	22	15	26	112
Virginia Polytechnic Inst & St U .....	4	14	2	47	26	21	20	24	94	308

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Washington, total .....	21	406	83	5	9	25	9	35	57	20	37	0
Gonzaga University .....	320	2	0	0	0	0	0	0	0	0	0	0
Seattle Pacific University .....	340	0	0	0	0	0	0	0	0	0	0	0
Seattle University .....	340	0	0	0	0	0	0	0	0	0	0	0
University of Washington Seattle .....	15	323	68	5	5	22	7	29	50	16	34	0
Washington State University .....	100	81	15	0	4	3	2	6	7	4	3	0
West Virginia, total .....	40	94	19	3	2	3	6	5	14	7	7	0
Marshall University .....	320	2	0	0	0	0	0	0	0	0	0	0
West Virginia University .....	89	92	19	3	2	3	6	5	14	7	7	0
Wisconsin, total .....	16	566	117	17	6	30	25	39	79	32	46	1
Marquette University .....	222	20	7	0	1	3	0	3	4	0	4	0
Medical College of Wisconsin .....	267	10	0	0	0	0	0	0	0	0	0	0
U of Wisconsin Madison .....	2	495	104	17	5	23	24	35	64	27	36	1
U of Wisconsin Milwaukee .....	156	41	6	0	0	4	1	1	11	5	6	0
Wyoming, total .....	46	54	4	1	0	1	2	0	12	2	10	0
University of Wyoming .....	129	54	4	1	0	1	2	0	12	2	10	0
Puerto Rico, total .....	41	84	0	0	0	0	0	0	7	0	7	0
Carlos Albizu University .....	151	43	0	0	0	0	0	0	0	0	0	0
Inter American U PR Metropolitan .....	340	0	0	0	0	0	0	0	0	0	0	0
U of PR Mayaguez Campus .....	297	4	0	0	0	0	0	0	0	0	0	0
U of PR Medical Science Campus .....	277	8	0	0	0	0	0	0	0	0	0	0
U of PR Rio Piedras .....	184	29	0	0	0	0	0	0	7	0	7	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 2000**

[To increase readability, fields span two pages and institutions are repeated on facing pages.]  
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State and institution	Earth, atmos., & ocean sciences	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Washington, total .....	26	15	10	131	114	17	18	66	228	634
Gonzaga University .....	0	0	0	0	0	0	1	1	9	11
Seattle Pacific University .....	0	0	0	0	0	0	0	0	8	8
Seattle University .....	0	0	0	0	0	0	0	0	11	11
University of Washington Seattle .....	24	11	9	97	86	11	13	51	163	486
Washington State University .....	2	4	1	34	28	6	4	14	37	118
West Virginia, total .....	2	1	3	24	13	11	22	9	40	134
Marshall University .....	0	0	0	2	2	0	0	0	0	2
West Virginia University .....	2	1	3	22	11	11	22	9	40	132
Wisconsin, total .....	13	20	17	210	163	47	37	73	303	869
Marquette University .....	0	1	0	4	4	0	4	0	34	54
Medical College of Wisconsin .....	0	0	0	10	10	0	0	0	0	10
U of Wisconsin Madison .....	13	16	15	190	143	47	27	66	233	728
U of Wisconsin Milwaukee .....	0	3	2	6	6	0	6	7	36	77
Wyoming, total .....	5	2	0	20	13	7	6	5	18	72
University of Wyoming .....	5	2	0	20	13	7	6	5	18	72
Puerto Rico, total .....	4	0	0	12	12	0	60	1	46	130
Carlos Albizu University .....	0	0	0	0	0	0	43	0	0	43
Inter American U PR Metropolitan .....	0	0	0	0	0	0	0	0	23	23
U of PR Mayaguez Campus .....	4	0	0	0	0	0	0	0	0	4
U of PR Medical Science Campus .....	0	0	0	8	8	0	0	0	0	8
U of PR Rio Piedras .....	0	0	0	4	4	0	17	1	23	52

**KEY:** - = Not applicable  
\* = States are ranked 1 to 51 and institutions are ranked 1 to 340.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by citizenship status and major field: 2000**

Page 1 of 4

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All recipients									
Science and engineering, total .....	25,979	16,861	15,185	6,386	3,191	3,768	1,840	1,613	63
Engineering, total .....	5,330	3,342	2,953	630	340	1,685	298	376	13
Aeronautical/astronautical .....	215	131	119	33	9	50	27	12	0
Chemical .....	726	483	412	108	26	259	19	70	1
Civil .....	558	319	263	70	57	101	35	54	2
Electrical .....	1,544	1,003	915	101	94	638	82	84	4
Industrial .....	176	119	97	9	29	49	10	22	0
Materials/metallurgical .....	451	282	250	73	18	137	22	31	1
Mechanical .....	864	516	471	94	52	280	45	43	2
Other engineering .....	796	489	426	142	55	171	58	60	3
Sciences, total .....	20,649	13,519	12,232	5,756	2,851	2,083	1,542	1,237	50
Physical sciences, total .....	3,411	2,288	2,082	1,166	167	635	114	194	12
Astronomy .....	187	136	118	85	9	15	9	18	0
Chemistry .....	1,990	1,368	1,270	714	103	399	54	92	6
Physics .....	1,205	766	677	361	52	215	49	83	6
Other physical sciences .....	29	18	17	6	3	6	2	1	0
Earth, atmospheric, and ocean sciences .....	757	480	419	215	77	70	57	58	3
Mathematics .....	1,048	729	653	213	263	137	40	74	2
Computer sciences .....	861	597	541	47	179	274	41	49	7
Biological sciences .....	5,855	4,007	3,758	2,902	344	297	215	237	12
Agricultural sciences .....	943	569	423	159	108	106	50	142	4
Psychology .....	3,623	2,229	2,170	786	501	309	574	53	6
Social sciences .....	4,151	2,620	2,186	268	1,212	255	451	430	4
Non-S&E, total .....	15,389	9,850	9,010	592	5,149	699	2,570	810	30
Grand total, all fields .....	41,368	26,711	24,195	6,978	8,340	4,467	4,410	2,423	93

See explanatory information, if any, and SOURCE at end of table.

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by citizenship status and major field: 2000**

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Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
U.S. citizens									
Science and engineering, total .....	15,655	11,049	10,679	4,283	2,605	2,168	1,623	341	29
Engineering, total .....	2,206	1,592	1,552	292	235	765	260	37	3
Aeronautical/astronautical .....	117	80	80	16	6	33	25	0	0
Chemical .....	338	249	243	50	21	157	15	6	0
Civil .....	219	144	141	25	45	46	25	3	0
Electrical .....	527	395	385	39	53	220	73	9	1
Industrial .....	67	49	47	5	19	15	8	2	0
Materials/metallurgical .....	221	155	147	38	14	73	22	8	0
Mechanical .....	339	239	234	37	36	122	39	5	0
Other engineering .....	378	281	275	82	41	99	53	4	2
Sciences, total .....	13,449	9,457	9,127	3,991	2,370	1,403	1,363	304	26
Physical sciences, total .....	1,885	1,394	1,316	687	145	402	82	73	5
Astronomy .....	128	101	87	60	9	11	7	14	0
Chemistry .....	1,116	853	824	420	95	268	41	26	3
Physics .....	622	426	391	202	38	118	33	33	2
Other physical sciences .....	19	14	14	5	3	5	1	0	0
Earth, atmospheric, and ocean sciences .....	475	337	321	151	69	49	52	15	1
Mathematics .....	513	395	386	100	188	67	31	9	0
Computer sciences .....	387	290	280	20	112	113	35	7	3
Biological sciences .....	3,895	2,842	2,741	2,022	300	228	191	93	8
Agricultural sciences .....	446	293	282	67	97	74	44	10	1
Psychology .....	3,146	2,093	2,067	741	467	298	561	20	6
Social sciences .....	2,702	1,813	1,734	203	992	172	367	77	2
Non-S&E, total .....	12,233	8,365	8,192	485	4,624	592	2,491	151	22
Grand total, all fields .....	27,888	19,414	18,871	4,768	7,229	2,760	4,114	492	51

See explanatory information, if any, and SOURCE at end of table.

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by citizenship status and major field: 2000**

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Field of study	Total	Definite plans							Abroad	Location unknown		
		Total with definite plans	In the United States									
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other					
Non-U.S. citizens with permanent visas												
Science and engineering, total .....	1,409	844	787	309	148	285	45	53	4			
Engineering, total .....	350	224	213	36	27	142	8	9	2			
Aeronautical/astronautical .....	10	7	7	3	0	4	0	0	0			
Chemical .....	42	22	19	3	1	14	1	2	1			
Civil .....	41	26	26	3	4	16	3	0	0			
Electrical .....	116	77	74	4	7	61	2	2	1			
Industrial .....	10	9	7	1	3	3	0	2	0			
Materials/metallurgical .....	22	15	14	4	2	8	0	1	0			
Mechanical .....	56	35	35	10	4	21	0	0	0			
Other engineering .....	53	33	31	8	6	15	2	2	0			
Sciences, total .....	1,059	620	574	273	121	143	37	44	2			
Physical sciences, total .....	199	129	123	51	8	54	10	6	0			
Astronomy .....	12	6	6	4	0	0	2	0	0			
Chemistry .....	120	80	76	30	2	40	4	4	0			
Physics .....	66	42	40	17	6	14	3	2	0			
Other physical sciences .....	1	1	1	0	0	0	1	0	0			
Earth, atmospheric, and ocean sciences .....	34	20	19	10	1	6	2	1	0			
Mathematics .....	55	33	33	7	16	10	0	0	0			
Computer sciences .....	71	54	49	4	14	31	0	4	1			
Biological sciences .....	365	216	208	164	18	17	9	7	1			
Agricultural sciences .....	55	26	20	8	3	8	1	6	0			
Psychology .....	75	37	32	13	13	3	3	5	0			
Social sciences .....	205	105	90	16	48	14	12	15	0			
Non-S&E, total .....	540	292	253	23	164	31	35	37	2			
Grand total, all fields .....	1,949	1,136	1,040	332	312	316	80	90	6			

See explanatory information, if any, and SOURCE at end of table.

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by citizenship status and major field: 2000**

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Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Non-U.S. citizens with temporary visas									
Science and engineering, total .....	7,648	4,946	3,701	1,787	436	1,309	169	1,219	26
Engineering, total .....	2,444	1,519	1,181	302	77	773	29	330	8
Aeronautical/astronautical .....	75	44	32	14	3	13	2	12	0
Chemical .....	308	210	148	55	4	86	3	62	0
Civil .....	280	148	95	42	8	38	7	51	2
Electrical .....	777	529	454	58	34	356	6	73	2
Industrial .....	93	61	43	3	7	31	2	18	0
Materials/metallurgical .....	181	111	88	31	2	55	0	22	1
Mechanical .....	431	241	201	47	11	137	6	38	2
Other engineering .....	299	175	120	52	8	57	3	54	1
Sciences, total .....	5,204	3,427	2,520	1,485	359	536	140	889	18
Physical sciences, total .....	1,156	760	638	424	14	179	21	115	7
Astronomy .....	43	28	24	20	0	4	0	4	0
Chemistry .....	648	432	367	262	6	91	8	62	3
Physics .....	457	297	245	141	8	83	13	48	4
Other physical sciences .....	8	3	2	1	0	1	0	1	0
Earth, atmospheric, and ocean sciences .....	202	121	78	53	7	15	3	42	1
Mathematics .....	442	299	233	105	59	60	9	65	1
Computer sciences .....	361	250	209	23	52	129	5	38	3
Biological sciences .....	1,390	947	808	715	26	52	15	137	2
Agricultural sciences .....	416	249	121	84	8	24	5	126	2
Psychology .....	164	99	71	32	21	8	10	28	0
Social sciences .....	1,073	702	362	49	172	69	72	338	2
Non-S&E, total .....	2,000	1,190	564	84	360	76	44	621	5
Grand total, all fields .....	9,648	6,136	4,265	1,871	796	1,385	213	1,840	31

**NOTE:** Details may not add to totals because of persons with unknown citizenship.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000**

Page 1 of 2

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All recipients								
Science and engineering, total .....	100.0	90.1	37.9	18.9	22.3	10.9	9.6	0.4
Engineering, total .....	100.0	88.4	18.9	10.2	50.4	8.9	11.3	.4
Aeronautical/astronautical .....	100.0	90.8	25.2	6.9	38.2	20.6	9.2	0
Chemical .....	100.0	85.3	22.4	5.4	53.6	3.9	14.5	.2
Civil .....	100.0	82.4	21.9	17.9	31.7	11.0	16.9	.6
Electrical .....	100.0	91.2	10.1	9.4	63.6	8.2	8.4	.4
Industrial .....	100.0	81.5	7.6	24.4	41.2	8.4	18.5	0
Materials/metallurgical .....	100.0	88.7	25.9	6.4	48.6	7.8	11.0	.4
Mechanical .....	100.0	91.3	18.2	10.1	54.3	8.7	8.3	.4
Other engineering .....	100.0	87.1	29.0	11.2	35.0	11.9	12.3	.6
Sciences, total .....	100.0	90.5	42.6	21.1	15.4	11.4	9.2	.4
Physical sciences, total .....	100.0	91.0	51.0	7.3	27.8	5.0	8.5	.5
Astronomy .....	100.0	86.8	62.5	6.6	11.0	6.6	13.2	0
Chemistry .....	100.0	92.8	52.2	7.5	29.2	3.9	6.7	.4
Physics .....	100.0	88.4	47.1	6.8	28.1	6.4	10.8	.8
Other physical sciences .....	100.0	94.4	33.3	16.7	33.3	11.1	5.6	0
Earth, atmospheric, and ocean sciences .....	100.0	87.3	44.8	16.0	14.6	11.9	12.1	.6
Mathematics .....	100.0	89.6	29.2	36.1	18.8	5.5	10.2	.3
Computer sciences .....	100.0	90.6	7.9	30.0	45.9	6.9	8.2	1.2
Biological sciences .....	100.0	93.8	72.4	8.6	7.4	5.4	5.9	.3
Agricultural sciences .....	100.0	74.3	27.9	19.0	18.6	8.8	25.0	.7
Psychology .....	100.0	97.4	35.3	22.5	13.9	25.8	2.4	.3
Social sciences .....	100.0	83.4	10.2	46.3	9.7	17.2	16.4	.2
Non-S&E, total .....	100.0	91.5	6.0	52.3	7.1	26.1	8.2	.3
Grand total, all fields .....	100.0	90.6	26.1	31.2	16.7	16.5	9.1	.3
U.S. citizens								
Science and engineering, total .....	100.0	96.7	38.8	23.6	19.6	14.7	3.1	0.3
Engineering, total .....	100.0	97.5	18.3	14.8	48.1	16.3	2.3	.2
Aeronautical/astronautical .....	100.0	100.0	20.0	7.5	41.2	31.3	0	0
Chemical .....	100.0	97.6	20.1	8.4	63.1	6.0	2.4	0
Civil .....	100.0	97.9	17.4	31.3	31.9	17.4	2.1	0
Electrical .....	100.0	97.5	9.9	13.4	55.7	18.5	2.3	.3
Industrial .....	100.0	95.9	10.2	38.8	30.6	16.3	4.1	0
Materials/metallurgical .....	100.0	94.8	24.5	9.0	47.1	14.2	5.2	0
Mechanical .....	100.0	97.9	15.5	15.1	51.0	16.3	2.1	0
Other engineering .....	100.0	97.9	29.2	14.6	35.2	18.9	1.4	.7
Sciences, total .....	100.0	96.5	42.2	25.1	14.8	14.4	3.2	.3
Physical sciences, total .....	100.0	94.4	49.3	10.4	28.8	5.9	5.2	.4
Astronomy .....	100.0	86.1	59.4	8.9	10.9	6.9	13.9	0
Chemistry .....	100.0	96.6	49.2	11.1	31.4	4.8	3.0	.4
Physics .....	100.0	91.8	47.4	8.9	27.7	7.7	7.7	.5
Other physical sciences .....	100.0	100.0	35.7	21.4	35.7	7.1	0	0
Earth, atmospheric, and ocean sciences .....	100.0	95.3	44.8	20.5	14.5	15.4	4.5	.3
Mathematics .....	100.0	97.7	25.3	47.6	17.0	7.8	2.3	0
Computer sciences .....	100.0	96.6	6.9	38.6	39.0	12.1	2.4	1.0
Biological sciences .....	100.0	96.4	71.1	10.6	8.0	6.7	3.3	.3
Agricultural sciences .....	100.0	96.2	22.9	33.1	25.3	15.0	3.4	.3
Psychology .....	100.0	98.8	35.4	22.3	14.2	26.8	1.0	.3
Social sciences .....	100.0	95.6	11.2	54.7	9.5	20.2	4.2	.1
Non-S&E, total .....	100.0	97.9	5.8	55.3	7.1	29.8	1.8	.3
Grand total, all fields .....	100.0	97.2	24.6	37.2	14.2	21.2	2.5	.3

See explanatory information, if any, and SOURCE at end of table.

**Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000**

Page 2 of 2

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Non-U.S. citizens with permanent visas								
Science and engineering, total .....	100.0	93.2	36.6	17.5	33.8	5.3	6.3	0.5
Engineering, total .....	100.0	95.1	16.1	12.1	63.4	3.6	4.0	.9
Aeronautical/astronautical .....	100.0	100.0	42.9	0	57.1	0	0	0
Chemical .....	100.0	86.4	13.6	4.5	63.6	4.5	9.1	4.5
Civil .....	100.0	100.0	11.5	15.4	61.5	11.5	0	0
Electrical .....	100.0	96.1	5.2	9.1	79.2	2.6	2.6	1.3
Industrial .....	100.0	77.8	11.1	33.3	33.3	0	22.2	0
Materials/metallurgical .....	100.0	93.3	26.7	13.3	53.3	0	6.7	0
Mechanical .....	100.0	100.0	28.6	11.4	60.0	0	0	0
Other engineering .....	100.0	93.9	24.2	18.2	45.5	6.1	6.1	0
Sciences, total .....	100.0	92.6	44.0	19.5	23.1	6.0	7.1	.3
Physical sciences, total .....	100.0	95.3	39.5	6.2	41.9	7.8	4.7	0
Astronomy .....	100.0	100.0	66.7	0	0	33.3	0	0
Chemistry .....	100.0	95.0	37.5	2.5	50.0	5.0	5.0	0
Physics .....	100.0	95.2	40.5	14.3	33.3	7.1	4.8	0
Other physical sciences .....	100.0	100.0	0	0	0	100.0	0	0
Earth, atmospheric, and ocean sciences .....	100.0	95.0	50.0	5.0	30.0	10.0	5.0	0
Mathematics .....	100.0	100.0	21.2	48.5	30.3	0	0	0
Computer sciences .....	100.0	90.7	7.4	25.9	57.4	0	7.4	1.9
Biological sciences .....	100.0	96.3	75.9	8.3	7.9	4.2	3.2	.5
Agricultural sciences .....	100.0	76.9	30.8	11.5	30.8	3.8	23.1	0
Psychology .....	100.0	86.5	35.1	35.1	8.1	8.1	13.5	0
Social sciences .....	100.0	85.7	15.2	45.7	13.3	11.4	14.3	0
Non-S&E, total .....	100.0	86.6	7.9	56.2	10.6	12.0	12.7	.7
Grand total, all fields .....	100.0	91.5	29.2	27.5	27.8	7.0	7.9	.5
Non-U.S. citizens with temporary visas								
Science and engineering, total .....	100.0	74.8	36.1	8.8	26.5	3.4	24.6	0.5
Engineering, total .....	100.0	77.7	19.9	5.1	50.9	1.9	21.7	.5
Aeronautical/astronautical .....	100.0	72.7	31.8	6.8	29.5	4.5	27.3	0
Chemical .....	100.0	70.5	26.2	1.9	41.0	1.4	29.5	0
Civil .....	100.0	64.2	28.4	5.4	25.7	4.7	34.5	1.4
Electrical .....	100.0	85.8	11.0	6.4	67.3	1.1	13.8	.4
Industrial .....	100.0	70.5	4.9	11.5	50.8	3.3	29.5	0
Materials/metallurgical .....	100.0	79.3	27.9	1.8	49.5	0	19.8	.9
Mechanical .....	100.0	83.4	19.5	4.6	56.8	2.5	15.8	.8
Other engineering .....	100.0	68.6	29.7	4.6	32.6	1.7	30.9	.6
Sciences, total .....	100.0	73.5	43.3	10.5	15.6	4.1	25.9	.5
Physical sciences, total .....	100.0	83.9	55.8	1.8	23.6	2.8	15.1	.9
Astronomy .....	100.0	85.7	71.4	0	14.3	0	14.3	0
Chemistry .....	100.0	85.0	60.6	1.4	21.1	1.9	14.4	.7
Physics .....	100.0	82.5	47.5	2.7	27.9	4.4	16.2	1.3
Other physical sciences .....	100.0	66.7	33.3	0	33.3	0	33.3	0
Earth, atmospheric, and ocean sciences .....	100.0	64.5	43.8	5.8	12.4	2.5	34.7	.8
Mathematics .....	100.0	77.9	35.1	19.7	20.1	3.0	21.7	.3
Computer sciences .....	100.0	83.6	9.2	20.8	51.6	2.0	15.2	1.2
Biological sciences .....	100.0	85.3	75.5	2.7	5.5	1.6	14.5	.2
Agricultural sciences .....	100.0	48.6	33.7	3.2	9.6	2.0	50.6	.8
Psychology .....	100.0	71.7	32.3	21.2	8.1	10.1	28.3	0
Social sciences .....	100.0	51.6	7.0	24.5	9.8	10.3	48.1	.3
Non-S&E, total .....	100.0	47.4	7.1	30.3	6.4	3.7	52.2	.4
Grand total, all fields .....	100.0	69.5	30.5	13.0	22.6	3.5	30.0	.5

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients  
(U.S. citizens and non-U.S. citizens with permanent visas),  
by sex and major field: 2000**

Page 1 of 3

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All recipients									
Science and engineering, total .....	17,064	11,893	11,466	4,592	2,753	2,453	1,668	394	33
Engineering, total .....	2,556	1,816	1,765	328	262	907	268	46	5
Aeronautical/astronautical .....	127	87	87	19	6	37	25	0	0
Chemical .....	380	271	262	53	22	171	16	8	1
Civil .....	260	170	167	28	49	62	28	3	0
Electrical .....	643	472	459	43	60	281	75	11	2
Industrial .....	77	58	54	6	22	18	8	4	0
Materials/metallurgical .....	243	170	161	42	16	81	22	9	0
Mechanical .....	395	274	269	47	40	143	39	5	0
Other engineering .....	431	314	306	90	47	114	55	6	2
Sciences, total .....	14,508	10,077	9,701	4,264	2,491	1,546	1,400	348	28
Physical sciences, total .....	2,084	1,523	1,439	738	153	456	92	79	5
Astronomy .....	140	107	93	64	9	11	9	14	0
Chemistry .....	1,236	933	900	450	97	308	45	30	3
Physics .....	688	468	431	219	44	132	36	35	2
Other physical sciences .....	20	15	15	5	3	5	2	0	0
Earth, atmospheric, and ocean sciences .....	509	357	340	161	70	55	54	16	1
Mathematics .....	568	428	419	107	204	77	31	9	0
Computer sciences .....	458	344	329	24	126	144	35	11	4
Biological sciences .....	4,260	3,058	2,949	2,186	318	245	200	100	9
Agricultural sciences .....	501	319	302	75	100	82	45	16	1
Psychology .....	3,221	2,130	2,099	754	480	301	564	25	6
Social sciences .....	2,907	1,918	1,824	219	1,040	186	379	92	2
Non-S&E, total .....	12,773	8,657	8,445	508	4,788	623	2,526	188	24
Grand total, all fields .....	29,837	20,550	19,911	5,100	7,541	3,076	4,194	582	57

See explanatory information, if any, and SOURCE at end of table.

**Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients  
(U.S. citizens and non-U.S. citizens with permanent visas),  
by sex and major field: 2000**

Page 2 of 3

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Women									
Science and engineering, total .....	7,114	4,747	4,621	1,968	1,190	710	753	112	14
Engineering, total .....	484	321	312	71	56	144	41	7	2
Aeronautical/astronautical .....	14	9	9	2	0	5	2	0	0
Chemical .....	99	67	66	8	12	41	5	1	0
Civil .....	48	30	30	9	8	9	4	0	0
Electrical .....	90	58	55	6	10	31	8	2	1
Industrial .....	18	12	11	1	4	3	3	1	0
Materials/metallurgical .....	53	30	29	12	4	12	1	1	0
Mechanical .....	56	39	39	6	7	21	5	0	0
Other engineering .....	106	76	73	27	11	22	13	2	1
Sciences, total .....	6,630	4,426	4,309	1,897	1,134	566	712	105	12
Physical sciences, total .....	547	394	380	179	46	126	29	13	1
Astronomy .....	36	26	22	15	2	2	3	4	0
Chemistry .....	422	318	312	142	37	110	23	5	1
Physics .....	83	45	41	20	7	12	2	4	0
Other physical sciences .....	6	5	5	2	0	2	1	0	0
Earth, atmospheric, and ocean sciences .....	167	111	107	60	18	12	17	3	1
Mathematics .....	163	122	122	25	70	19	8	0	0
Computer sciences .....	86	64	62	4	27	21	10	0	2
Biological sciences .....	1,984	1,380	1,338	960	171	110	97	39	3
Agricultural sciences .....	165	99	94	30	29	22	13	4	1
Psychology .....	2,175	1,412	1,396	529	306	188	373	12	4
Social sciences .....	1,343	844	810	110	467	68	165	34	0
Non-S&E, total .....	7,474	5,017	4,930	309	2,767	328	1,526	75	12
Grand total, all fields .....	14,588	9,764	9,551	2,277	3,957	1,038	2,279	187	26

See explanatory information, if any, and SOURCE at end of table.

**Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients  
(U.S. citizens and non-U.S. citizens with permanent visas),  
by sex and major field: 2000**

Page 3 of 3

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Men									
Science and engineering, total .....	9,950	7,146	6,845	2,624	1,563	1,743	915	282	19
Engineering, total .....	2,072	1,495	1,453	257	206	763	227	39	3
Aeronautical/astronautical .....	113	78	78	17	6	32	23	0	0
Chemical .....	281	204	196	45	10	130	11	7	1
Civil .....	212	140	137	19	41	53	24	3	0
Electrical .....	553	414	404	37	50	250	67	9	1
Industrial .....	59	46	43	5	18	15	5	3	0
Materials/metallurgical .....	190	140	132	30	12	69	21	8	0
Mechanical .....	339	235	230	41	33	122	34	5	0
Other engineering .....	325	238	233	63	36	92	42	4	1
Sciences, total .....	7,878	5,651	5,392	2,367	1,357	980	688	243	16
Physical sciences, total .....	1,537	1,129	1,059	559	107	330	63	66	4
Astronomy .....	104	81	71	49	7	9	6	10	0
Chemistry .....	814	615	588	308	60	198	22	25	2
Physics .....	605	423	390	199	37	120	34	31	2
Other physical sciences .....	14	10	10	3	3	3	1	0	0
Earth, atmospheric, and ocean sciences .....	342	246	233	101	52	43	37	13	0
Mathematics .....	405	306	297	82	134	58	23	9	0
Computer sciences .....	372	280	267	20	99	123	25	11	2
Biological sciences .....	2,276	1,678	1,611	1,226	147	135	103	61	6
Agricultural sciences .....	336	220	208	45	71	60	32	12	0
Psychology .....	1,046	718	703	225	174	113	191	13	2
Social sciences .....	1,564	1,074	1,014	109	573	118	214	58	2
Non-S&E, total .....	5,299	3,640	3,515	199	2,021	295	1,000	113	12
Grand total, all fields .....	15,249	10,786	10,360	2,823	3,584	2,038	1,915	395	31

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000**

Page 1 of 3

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All recipients								
Science and engineering, total .....	100.0	96.4	38.6	23.1	20.6	14.0	3.3	0.3
Engineering, total .....	100.0	97.2	18.1	14.4	49.9	14.8	2.5	.3
Aeronautical/astronautical .....	100.0	100.0	21.8	6.9	42.5	28.7	0	0
Chemical .....	100.0	96.7	19.6	8.1	63.1	5.9	3.0	.4
Civil .....	100.0	98.2	16.5	28.8	36.5	16.5	1.8	0
Electrical .....	100.0	97.2	9.1	12.7	59.5	15.9	2.3	.4
Industrial .....	100.0	93.1	10.3	37.9	31.0	13.8	6.9	0
Materials/metallurgical .....	100.0	94.7	24.7	9.4	47.6	12.9	5.3	0
Mechanical .....	100.0	98.2	17.2	14.6	52.2	14.2	1.8	0
Other engineering .....	100.0	97.5	28.7	15.0	36.3	17.5	1.9	.6
Sciences, total .....	100.0	96.3	42.3	24.7	15.3	13.9	3.5	.3
Physical sciences, total .....	100.0	94.5	48.5	10.0	29.9	6.0	5.2	.3
Astronomy .....	100.0	86.9	59.8	8.4	10.3	8.4	13.1	0
Chemistry .....	100.0	96.5	48.2	10.4	33.0	4.8	3.2	.3
Physics .....	100.0	92.1	46.8	9.4	28.2	7.7	7.5	.4
Other physical sciences .....	100.0	100.0	33.3	20.0	33.3	13.3	0	0
Earth, atmospheric, and ocean sciences .....	100.0	95.2	45.1	19.6	15.4	15.1	4.5	.3
Mathematics .....	100.0	97.9	25.0	47.7	18.0	7.2	2.1	0
Computer sciences .....	100.0	95.6	7.0	36.6	41.9	10.2	3.2	1.2
Biological sciences .....	100.0	96.4	71.5	10.4	8.0	6.5	3.3	.3
Agricultural sciences .....	100.0	94.7	23.5	31.3	25.7	14.1	5.0	.3
Psychology .....	100.0	98.5	35.4	22.5	14.1	26.5	1.2	.3
Social sciences .....	100.0	95.1	11.4	54.2	9.7	19.8	4.8	.1
Non-S&E, total .....	100.0	97.6	5.9	55.3	7.2	29.2	2.2	.3
Grand total, all fields .....	100.0	96.9	24.8	36.7	15.0	20.4	2.8	.3

See explanatory information, if any, and SOURCE at end of table.

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000**

Page 2 of 3

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Women								
Science and engineering, total .....	100.0	97.3	41.5	25.1	15.0	15.9	2.4	0.3
Engineering, total .....	100.0	97.2	22.1	17.4	44.9	12.8	2.2	.6
Aeronautical/astronautical .....	100.0	100.0	22.2	0	55.6	22.2	0	0
Chemical .....	100.0	98.5	11.9	17.9	61.2	7.5	1.5	0
Civil .....	100.0	100.0	30.0	26.7	30.0	13.3	0	0
Electrical .....	100.0	94.8	10.3	17.2	53.4	13.8	3.4	1.7
Industrial .....	100.0	91.7	8.3	33.3	25.0	25.0	8.3	0
Materials/metallurgical .....	100.0	96.7	40.0	13.3	40.0	3.3	3.3	0
Mechanical .....	100.0	100.0	15.4	17.9	53.8	12.8	0	0
Other engineering .....	100.0	96.1	35.5	14.5	28.9	17.1	2.6	1.3
Sciences, total .....	100.0	97.4	42.9	25.6	12.8	16.1	2.4	.3
Physical sciences, total .....	100.0	96.4	45.4	11.7	32.0	7.4	3.3	.3
Astronomy .....	100.0	84.6	57.7	7.7	7.7	11.5	15.4	0
Chemistry .....	100.0	98.1	44.7	11.6	34.6	7.2	1.6	.3
Physics .....	100.0	91.1	44.4	15.6	26.7	4.4	8.9	0
Other physical sciences .....	100.0	100.0	40.0	0	40.0	20.0	0	0
Earth, atmospheric, and ocean sciences .....	100.0	96.4	54.1	16.2	10.8	15.3	2.7	.9
Mathematics .....	100.0	100.0	20.5	57.4	15.6	6.6	0	0
Computer sciences .....	100.0	96.9	6.3	42.2	32.8	15.6	0	3.1
Biological sciences .....	100.0	97.0	69.6	12.4	8.0	7.0	2.8	.2
Agricultural sciences .....	100.0	94.9	30.3	29.3	22.2	13.1	4.0	1.0
Psychology .....	100.0	98.9	37.5	21.7	13.3	26.4	.8	.3
Social sciences .....	100.0	96.0	13.0	55.3	8.1	19.5	4.0	0
Non-S&E, total .....	100.0	98.3	6.2	55.2	6.5	30.4	1.5	.2
Grand total, all fields .....	100.0	97.8	23.3	40.5	10.6	23.3	1.9	.3

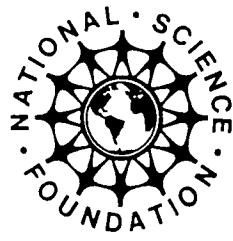
See explanatory information, if any, and SOURCE at end of table.

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000**

Page 3 of 3

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Men								
Science and engineering, total .....	100.0	95.8	36.7	21.9	24.4	12.8	3.9	0.3
Engineering, total .....	100.0	97.2	17.2	13.8	51.0	15.2	2.6	.2
Aeronautical/astronautical .....	100.0	100.0	21.8	7.7	41.0	29.5	0	0
Chemical .....	100.0	96.1	22.1	4.9	63.7	5.4	3.4	.5
Civil .....	100.0	97.9	13.6	29.3	37.9	17.1	2.1	0
Electrical .....	100.0	97.6	8.9	12.1	60.4	16.2	2.2	.2
Industrial .....	100.0	93.5	10.9	39.1	32.6	10.9	6.5	0
Materials/metallurgical .....	100.0	94.3	21.4	8.6	49.3	15.0	5.7	0
Mechanical .....	100.0	97.9	17.4	14.0	51.9	14.5	2.1	0
Other engineering .....	100.0	97.9	26.5	15.1	38.7	17.6	1.7	.4
Sciences, total .....	100.0	95.4	41.9	24.0	17.3	12.2	4.3	.3
Physical sciences, total .....	100.0	93.8	49.5	9.5	29.2	5.6	5.8	.4
Astronomy .....	100.0	87.7	60.5	8.6	11.1	7.4	12.3	0
Chemistry .....	100.0	95.6	50.1	9.8	32.2	3.6	4.1	.3
Physics .....	100.0	92.2	47.0	8.7	28.4	8.0	7.3	.5
Other physical sciences .....	100.0	100.0	30.0	30.0	30.0	10.0	0	0
Earth, atmospheric, and ocean sciences .....	100.0	94.7	41.1	21.1	17.5	15.0	5.3	0
Mathematics .....	100.0	97.1	26.8	43.8	19.0	7.5	2.9	0
Computer sciences .....	100.0	95.4	7.1	35.4	43.9	8.9	3.9	.7
Biological sciences .....	100.0	96.0	73.1	8.8	8.0	6.1	3.6	.4
Agricultural sciences .....	100.0	94.5	20.5	32.3	27.3	14.5	5.5	0
Psychology .....	100.0	97.9	31.3	24.2	15.7	26.6	1.8	.3
Social sciences .....	100.0	94.4	10.1	53.4	11.0	19.9	5.4	.2
Non-S&E, total .....	100.0	96.6	5.5	55.5	8.1	27.5	3.1	.3
Grand total, all fields .....	100.0	96.1	26.2	33.2	18.9	17.8	3.7	.3

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates



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